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Bismarck
North Dakota



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ANNUAL REPORT OF FIELD PLANTINGS IN SOUTH DAKOTA

1986



Pasque-Flower

United States Department of Agriculture
Soil Conservation Service

1986 Report of
Plant Materials Field Plantings
in
South Dakota

by

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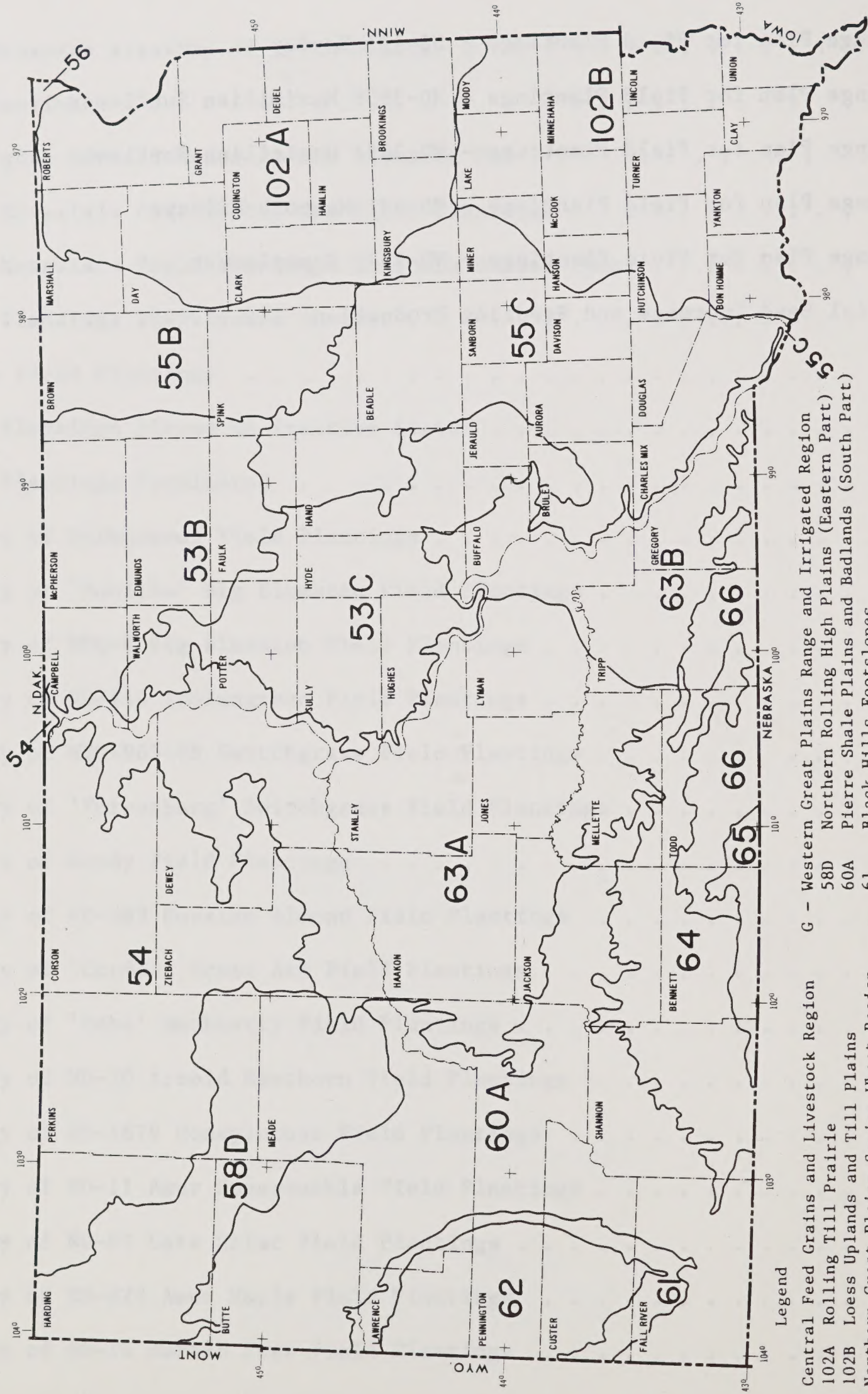
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SOUTH DAKOTA LAND RESOURCE REGIONS AND AREAS



- Legend
- M - Central Feed Grains and Livestock Region
102A Rolling Till Prairie
102B Loess Uplands and Till Plains
- F - Northern Great Plains Spring Wheat Region
53B Central Dark Brown Glaciated Plains
53C Southern Dark Brown Glaciated Plains
54 Rolling Soft Shale Plains
55B Central Black Glaciated Plains
55C Southern Black Glaciated Plains
56 Red River Valley of the North
- G - Western Great Plains Range and Irrigated Region
58D Northern Rolling High Plains (Eastern Part)
60A Pierre Shale Plains and Badlands (South Part)
61 Black Hills Footslopes
62 Black Hills
63A Rolling Pierre Shale Plains (North Part)
63B Rolling Pierre Shale Plains (South Part)
64 Mixed Sandy and Silty Tableland
65 Nebraska Sand Hills
66 Dakota - Nebraska Eroded Tableland

This report is prepared to summarize the plant materials field and seed increase planting activities in South Dakota.

Field plantings are the final evaluation of plants and techniques that have demonstrated superiority in studies at the PMC or in field evaluation plantings. These plantings will determine potential of the plants under actual use conditions and provide valuable data to document release as a new cultivar. Seed increase plantings are established to provide commercial supplies of conservation plants.

A long range plan has been developed on each plant, based on input by the Plant Materials Specialist and area and state specialists. Field planting long range plans project the number, size, purpose, location, seed need, and evaluations for the accession in final testing. Field planting long range plans are updated each year and consideration is given to other potential field plantings as they arise, if they meet the objectives of the long range plan. The Plant Materials Specialist works with the district conservationists, area and/or state staff in laying the ground work for each planting. (Refer to Long Range Plans and Planting Guides for current high priority needs for field planting sites.)

By definition all herbaceous field plantings will be considered active for three years; tree and shrub plantings for five years and then transferred to the inactive list. Inactive planting records will be maintained indefinitely in the field office file. Follow-up evaluations will be made of selected species and/or accessions at the request of the State PM Committee. All active field plantings were evaluated in 1986 (see list of active plantings). In addition, high priority will be given to evaluate inactive plantings of the following species:

ND-14 harbin pear	ND-83 late lilac
ND-283 Russian almond	ND-11 amur honeysuckle
ND-444 indiagrass	ND-629 amur maple
NDG-4 big bluestem	ND-95 prairie sandreed
NDG-965-98 switchgrass	ND-93 green needlegrass

There are several elements of a successful planting:

1. Conservation district supervisors are involved in planning, selecting cooperators, monitoring, and publicizing results of the planting.
2. The cooperator is fully informed about the objectives of the planting, and understands the culture and management required for a successful planting.
3. The planting should be of a size which can be a management unit and part of a planned RMS.
4. The planting fits with district objectives and field office goals.
5. SCS technicians or specialists provide the systematic follow-up in the establishment, maintenance, and evaluation of the planting.

Cooperation from area and field office personnel has been excellent. Establishment, management, and evaluation of the type and number of field plantings needed to properly test a superior plant selection would be impossible without their help.

Of special interest in this and future reports should be the summary reports that have been generated from data received from field plantings. These are examples of reports that can be generated from the plant materials data base system. The data can be sorted in many other ways. These reports should give field office personnel an opportunity to see how their plantings are performing in comparison with others in the state under a variety of situations. Data for other species or from other states in the PMC service area is available upon request.

HIGHLIGHTS OF ACTIVITIES AT THE BISMARCK PLANT MATERIALS CENTER

The USDA Plant Materials Center, Bismarck, North Dakota primarily serves the states of North Dakota, South Dakota and Minnesota. Activities are directed toward meeting the needs and priorities set forth in the 3 states long-range programs.

The objectives and functions of the Plant Materials Center are to:

1. Identify, select and improve plants to meet the resource conservation needs of the three states.
2. Determine cultural techniques for successful propagation and establishment of these plants.
3. Assemble and comparatively evaluate materials on and off the center.
4. Make comparative field plantings for final testing of promising plants and techniques with Conservation Districts and cooperators.
5. Work with Universities, Experiment Stations, and other State and Federal Agencies to cooperatively release improved conservation plants.
6. Produce limited quantities of foundation or foundation quality seed. This seed is made available to Conservation Districts, State Seed certifying organizations, commercial seed growers, or other agencies for establishing seed increase fields or seed orchards.
7. Encourage Conservation Districts, commercial seed growers, and commercial and state nurseries to produce adapted plant materials and named cultivars.

TREE AND SHRUB IMPROVEMENT

Within the three states, there is a need to improve the quality and quantity of species available for field and farmstead windbreaks, erosion control on cropland and critical areas, surface mine reclamation, recreational areas, wildlife habitat, and barrier plantings. The objective of the woody improvement program is to assemble, evaluate, increase and release cultivars with improved survival, growth rates, form, winter hardiness, fruit production, disease resistance or other valuable characteristics. Most projects are cooperative with various state, local and federal agencies, tree improvement foresters, scientists, and others with similar objectives.

Field Evaluation Plantings (multi-species).

The SCS has entered in memorandums or agreements with soil conservation districts, state universities and other state and federal agencies at thirteen locations in North Dakota, South Dakota and Minnesota to provide cooperative field evaluation planting sites with long term land tenure for testing of woody plant materials. These agreements provide sites for initial evaluation of species and cultivars under diverse soil and climatic conditions. They represent major land resource areas and key windbreak suitability groups. Initial evaluations are recorded on individual spaced plants or rows under uniform culture and management conditions.

Project 38I302K - North Dakota Game and Fish Department, McKenzie Slough Game Management Area, McKenzie, North Dakota. Soil series- texture: Savage silty clay loam, MLRA: 053B, WSG: 3; 338 accessions of 126 species.

Project 38I305K - Herman Brothers Farm, Brinsmade, North Dakota. Soil series-texture: Svea-Buse loam, MLRA: 055A, WSG: 1, 8; 153 accessions of 59 species.

Project 38I308K - North Dakota State University, Bottineau Branch, Bottineau, North Dakota. Soil series-texture: Barnes-Aastad Complex, MLRA: 055A, WSG: 3; 130 accessions of 57 species.

Project 38I316K - North Dakota State University, Dickinson, Branch Experiment Station, Dickinson, North Dakota. Soil series-texture: Parshall fine sandy loam, MLRA: 054, WSG: 5; 61 accessions of 35 species.

Project 38I321K - North Dakota State University, Williston Branch Experiment Station, Williston, North Dakota. Soil series-texture: Williams loam, MLRA: 053A, WSG: 3; 28 accessions of 19 species.

Project 38I323K - Morton County Parks, Sweet Briar Recreation Area, Mandan, North Dakota. Soil series-texture: Stady loam, MLRA: 054, WSG: 6; 79 accessions of 63 species.

Project 38I314K - USDI, Fish and Wildlife Service, National Wildlife Refuge, Lake Andes, South Dakota. Soil series-texture: Highmore silt loam, MLRA: 055C, WSG: 3; 84 accessions of 45 species.

Project 38I319K - U.S. Forest Service, Buffalo Gap National Grassland, Cottonwood, South Dakota. Soil series-texture: Kyle silty clay, MLRA: 060A, WSG: 4; 67 accessions of 46 species.

Project 38I315K - South Dakota State University Central Research Station, Highmore, South Dakota. Soil series-texture: Williams silt loam, MLRA: 053C, WSG: 3; 118 accessions of 56 species.

Project 38I318K - University of Minnesota, West Central Experiment Station, Morris, Minnesota. Soil series-texture: Barnes-Buse loam, MLRA: 102A, WSG: 3, 8; 89 accessions of 52 species.

Project 38I320K - University of Minnesota, Northwest Experiment Station, Crookston, Minnesota. Soil series-texture: Bearden silty clay loam, MLRA: 056, WSG: 1; 56 accessions of 38 species.

Project 38I325K - University of Minnesota, Westport, Minnesota, Center Pivot Irrigation System. Soil series-texture: Esterville sandy loam, MLRA: 91, WSG: 7; 21 accessions of 18 species.

Project 38I340K - Minnesota Department of Natural Resources, Rochester, Minnesota. Soil series-texture: Mt. Carrol silt loam, MLRA: 105; 79 accessions of 33 species are planned for establishment.

Current Status: Assembly and evaluation continues for each project. The following accessions show potential for further evaluation and release:

<u>Accession Number</u>	<u>Genus/species</u>	<u>Origin/source</u>
ND-654 5652T	silver maple <u>Acer saccharinum</u>	Pembina Co., ND
SD-13 5888T	green ash <u>Fraxinus pennsylvanica</u>	Potter Co., SD
SD-156 5890T	green ash <u>Fraxinus pennsylvanica</u>	Deuel Co., SD
ND-647 5887T	black ash <u>Fraxinus nigra</u>	Res. Sta., Morden, MB, Canada
ND-630 6096T	bur oak <u>Quercus macrocarpa</u>	Barnes Co., ND
Mich-768 12606T	horizontal juniper <u>Juniperus horizontalis</u>	USDA-SCS, PMC, East Lansing, MI
ND-25 5741T	downy hawthorn <u>Crataegus mollis</u>	NDSU, Fargo, ND
PI-370126	willow <u>Salix sp.</u>	Plant Introduction Sta., Ames, IA
ND-21 34900T	nannyberry <u>Viburnum lentago</u>	USDA, ARS, Mandan, ND
SD-131 6073T	mayday <u>Prunus padus</u>	Moody Co., SD
ND-1029 6086T	chokecherry (yellow fruit) <u>Prunus virginiana</u>	Logan Co., ND
ND-3905 35215T	dwarf artic willow <u>Salix purpurea nana</u>	NDSU, Fargo, ND
ND-3904 35214T	blue fountain willow <u>Salix sp.</u>	NDSU, Fargo, ND
ND-3745 19584T	forsythia <u>Forsythia europea x. ovata</u>	P.I. Sta., Ames, IA
ND-428 5970T	black walnut <u>Juglans nigra</u>	NDSU, Fargo, ND
ND-450 6119T	Redman elderberry <u>Sambucus racemosa</u>	USDA, ARS, Cheyenne, WY

<u>Accession Number</u>	<u>Genus/species</u>	<u>Origin/source</u>
ND-500 5977T	Siberian larch <u>Larix sibirica</u>	Res. Sta., Morden, MB Canada
ND-673 6214T	mountain ash <u>Sorbus aucuparia</u>	Res. Sta., Morden, MB, Canada
PI-323957	black chokeberry <u>Aronia melanocarpa</u>	P.I. Sta., Ames, IA
ND-1134 47203T	hardy plum <u>Prunus sp.</u>	W. Hermann, Miller, SD
ND-3779 29137T	Manchurian poplar <u>Populus sp.</u>	Lee Nursery, Fertile, MN
'Darts Golden' 19601T	dwarf ninebark <u>Physocarpus opulifolius</u>	P.I. Sta., Ames, IA
ND-3744 19577T	Korean barberry <u>Berberis sp.</u>	NDSU, Fargo, ND

Tree and Shrub Seed Source Studies and Assemblies. These studies involve (1) a search for superior trees and shrubs in natural stands, shelterbelts and plantings of known origin; (2) initial evaluation in test plantations on sites selected to represent major land resource areas or seed zones; (3) selection and increase of superior plants (seed increase crossing blocks); (4) advanced studies to determine cultural methods; and (5) final testing in field plantings to further evaluate performance and area of adaptation.

Project 38I015J - Evaluation of chokecherry, (Prunus virginiana). In 1979, SCS field office personnel were instrumental in locating stands and collecting a total of 179 accessions from North Dakota, South Dakota and Minnesota. Without their concerted effort and cooperation such large scale assemblies would not be possible. Seedlings grown at the PMC were transplanted in the spring of 1983 into test plantations near Bismarck and Pierre. Experimental design is a randomized block with some blocks incomplete. Accessions are replicated 5 times with 4 trees per replication. Survival at the North Dakota site was 95% in 1985. One hundred fifty of the original 179 accessions were established. Survival totaled 61% at the South Dakota planting in 1984. In North Dakota, chokecherry growth rates ranged from 33 to 71 cm/year. Heights reached up to 290 cm (9.5 feet) in 1986. Both tree-like and dense suckering forms are apparent. Differences in size and growth rates based on north-south latitudinal origin are not yet visible at this early age. Plans are to inoculate the South Dakota plantation with western-X disease in order to screen the population for resistance to this serious pathogen. Dr. Glenn Peterson, Plant Pathologist, USDA Forest Service, Lincoln, NE, will conduct the inoculation. Survival, vigor, plant height, and crown width were recorded in 1986.

Project 38I012J - Evaluation of silver buffaloberry, (Shepherdia argentea). SCS field personnel collected 134 accessions in North Dakota and South Dakota in 1977-79. Four additional accession were obtained from the Canada Agriculture Research Station, Morden, Manitoba. Seedlings grown at the PMC were transplanted into test plantations near Bismarck and Pierre in the spring of 1983. Experimental design is the same as the chokecherry project. The South Dakota planting has been discontinued because of poor survival. Survival at the North Dakota site was 85% in 1985. Out of the original assembly, 101 accessions are represented. Growth rates averaged 17 to 54 cm/year. Several accessions have exceeded heights of 250 cm (8 feet) in 1986. Survival, vigor, plant height, and crown width were recorded in 1986.

Project 38I013J - Evaluation of hawthorn, (Crateagus sp). SCS field personnel collected seed from 139 accessions in North Dakota and South Dakota in 1976-79. An additional 45 collections of introduced species were obtained from the Canada Agriculture Research Station, Morden, Manitoba. Seedlings were transplanted into test plantations near Bismarck and Pierre in 1983. Experimental design is the same as the chokecherry and buffaloberry projects. From the original assembly, 75 native and 31 introduced accessions were established. Survival at the North Dakota site was 98% in 1985. Unfortunately, because of poor survival the South Dakota planting has been discontinued. Despite moderate deer browse, growth rates in North Dakota averaged 15 cm/year, ranging from 0 to 23. Some accessions have exceeded a height of 125 cm (4.0 feet) in 1986. Introduced species are generally more vigorous at this early stage. Survival, vigor, plant height, crown width, and disease and insect resistance were recorded in 1986.

Project 38I333K - Evaluation of hackberry, (Celtis occidentalis).
GP-13 Technical Committee Cooperative Provenance Test.

Dr. Richard A. Cunningham, Study Coordinator, USDA-ARS, Mandan, ND.

Objectives of the study:

1. Identify the extent and patterns of genetic variability within hackberry growing in ND, SD, MN, NE, IA, MO, KS, OK, AR and Manitoba, Canada.
2. To identify the seed sources of hackberry best adapted for planting in ND, SD, MN, NE, IA, MO, KS, OK, and AR.
3. To provide a highly variable gene pool that could be utilized for future selections and breeding.

Current Status: The assembly of seed sources is now complete. A total of 293 (4 in 1979, 58 in 1982, 86 in 1983, 98 in 1984, 47 in 1985) field collections were processed at the USDA-SCS, PMC, Bismarck, North Dakota. Clean seed amounts range from 8 to 3,439 grams. The PMC greatly appreciates the positive response and excellent cooperation from most states and SCS personnel assisting with the collections. Only a small number of zones in the study area were inadequately sampled or not collected. Seed lots from fifty of the 55 designated zones encompassing 9 states and the Province of Manitoba, Canada were received.

North Dakota	23 Collections - (2-1979, 14-1982, 0-1983, 0-1984, 7-1985)
South Dakota	39 Collections - (2-1979, 6-1982, 4-1983, 15-1984, 12-1985)
Minnesota	29 Collections - (9-1982, 11-1983, 0-1984, 9-1985)
Nebraska	69 Collections - (14-1982, 31-1983, 16-1984, 8-1985)
Kansas	56 Collections - (11-1982, 17-1983, 24-1984, 4-1985)
Oklahoma	19 Collections - (3-1982, 4-1983, 11-1984, 1-1985)
Iowa	29 Collections - (0-1982, 19-1983, 9-1984, 1-1985)
Missouri	24 Collections - (0-1982, 0-1983, 23-1984, 1-1985)
Arkansas	4 Collections - (4-1985)
Canada	1 Collection - (1-1982)

A total of 219 accessions (4 replications each) were planted at the USDA-SCS PMC, Manhattan, Kansas in November, 1986. One year old bareroot seedlings will be raised and shipped to cooperating researchers for establishment in 17 or more test plantations in the central and northern plains. According to germination tests conducted by the ARS, potential production is 193,000 seedlings.

Selection and increase of superior plants (seed orchards)

Project 38S317K USDI, Fish and Wildlife Service, Apple Creek Township, Burleigh County, North Dakota.

Current status: Forty to fifty plants of each of the following accessions have been established in a spaced plant isolated seed orchard. Seed harvested from this orchard will be provided to nurseries when varieties have been released for commercial production.

'Cardan'	green ash
(469226)	<u>Fraxinus pennsylvanica</u>
'Midwest'	Manchurian crabapple
(478000)	<u>Malus baccata mandshurica</u>
'Big Horn'	skunkbush sumac
(483445)	<u>Rhus trilobata</u>
'Oahe'	hackberry
(476982)	<u>Celtis occidentalis</u>
ND-14	Harbin pear
(478004)	<u>Pyrus ussuriensis</u>

ND-313 red tatarian honeysuckle
(477999) Lonicera tatarica sibirica

ND-629 amur maple
(477992) Acer ginnala

'Sakakawea' silver buffaloberry
(478005) Shepherdia argentea

'Scarlet' Mongolian cherry
(478003) Prunus fruticosa

SD-131 Mayday
(6073T) Prunus padus

ND-177 cotoneaster
(5729T) Cotoneaster integerrima

ND-1134 hardy plum
(47203T) Prunus sp.

Final Evaluation and Release Schedule - Woody:

<u>Accession No.</u>	<u>Species</u>	<u>Projected Year of Release</u>
ND-177 PI-113095	European cotoneaster <u>Cotoneaster integerrima</u>	1986-87
ND-11 PI-477998	amur honeysuckle <u>Lonicera maackii</u>	1987-88
ND-20 5731T	Arnold hawthorn <u>Crataegus arnoldiana</u>	1988-89
ND-629 PI-477992	amur maple <u>Acer ginnala</u>	1988-89
ND-1879 11850T	honeylocust <u>Gleditsia triacanthos</u>	1989-90
ND-83 6228T	late lilac <u>Syringa villosa</u>	1989-90
ND-283 6079T	Russian almond <u>Prunus tenella</u>	1989-90
ND-14 PI-478004	harbin pear <u>Pyrus ussuriensis</u>	1988-89

GRASS IMPROVEMENT

Native grasses and closely related introduced species are needed for critical area stabilization, erosion control, wildlife habitat, pasture and hayland, rangeland and surface mine revegetation. Adapted cultivars are still needed for many warm and cool season species in the 3 state area. Emphasis of the PMC selection program is placed on erosion control, improving forage quantity and quality, identifying adapted, winter hardy seed sources capable of maintaining high stand density, and increasing seed production and disease resistance. The PMC also cooperates on projects with research agencies such as ARS who employ plant breeders to improve the quality of forages available in the Northern Plains. In addition, evaluations are conducted off center by the PMC in cooperation with state and federal land management agencies.

Field Evaluation Plantings (multi-species): The objective is to determine the adaptation and performance of selected species and varieties of warm season native grasses to be evaluated under uniform culture and management.

Project 38A327J USDI-FWS, Fergus Falls, Minnesota. Thirty-three accessions of warm season species, established in June 1982. The planting plan is a randomized complete block with 3 replications, and an array for demonstrational purposes. Stands-excellent. Data collected included plant density, plant height, weed competition and stand rating. Forage yield was sampled in 1983-1986. Annual production was down in 1985 and 1986, although moisture conditions were good. Soil samples were collected to check fertility levels. Very obvious differences in maturity were noted between the northern and southern sources of each species.

Project 38A328J USDI-FWS, J. Clark Salyer NWR, Upham, North Dakota. Thirty-three accessions of warm season species, established in June 1982. The planting plan is the same as Fergus Falls (see above). Stands-excellent. Data collected included plant density, winter injury, plant height, weed competition and stand rating. Forage yield was sampled in 1983-1986. Forage production has been excellent, especially for the northern cultivars. Winter injury was noted in southern sources of big bluestem, indiangrass, and little bluestem. Southern sources of switchgrass did not seem as affected by winter injury as the other species but delayed maturity was apparent.

Project 38A334J USDI-FWS, Lake Andes, South Dakota. Thirty-two accessions of warm season species, established in June 1983. The planting plan is a randomized complete block with three replications, plus a demonstration array. Stands-good to excellent. During 1983, stand ratings were the only evaluations conducted. Plant density, phenology and forage yield were collected in 1984-1986. Northern sources were generally low in production. Maturity differences were again readily apparent. The plots were burned in 1986. Some of the more southern sources had excellent forage production in 1986. 'Holt', 'Oto', and 'Osage' indiangrass produced 5 ton/acre of oven dry forage. 'Summer' switchgrass was also in that range.

Project 38A337X US Army Corps of Engineers, Ft. Pierre, South Dakota. Thirty-three accessions of warm season species were established May 27-30, 1986. The planting plan is a randomized completed block with three replications, plus a demonstration array. Stand establishment was good-excellent. Data collected in 1986 included stand density, stand rating, plant height, weed competition, and stand emergence. Stand density estimates ranged from 2 to 34 plants/ft². The stands looked good going into winter; however, severe surface cracks on the Promise clay soil may cause some plant loss.

Project 38A336X Sully County, South Dakota. Thirty-two accessions of warm season grasses were established in randomized blocks seeded May 23-24, 1984. First year stands were fair-excellent. Density ratings ranged from 7 to 29 plants/sq. ft. Data collected included density, stand rating, plant height, and weed competition. Annual forage production and phenology were documented in 1985. Moisture conditions were poor in 1985 and forage production was low. Most northern sources were rated poor in performance. Improved moisture conditions in 1986 resulted in excellent production. Some of the switchgrass entries produced more than 4 ton/ac of oven dry forage.

Project 38A335X Minnesota Dept. of Natural Resources, Rochester, Minnesota. Thirty-seven accessions of warm season grass were established in randomized blocks seeded June 4-6, 1985. Eastern gamagrass and caucasian bluestem were also included in the evaluation. Density ratings, plant height and weed contamination were documented August 20-21, 1985. Stands were rated fair to excellent. Weed competition was heavy on some plots. Data collected in 1986 included stand index, height, and weed competition. Density estimates ranged from 2 to 24 plants/ft². Forage production will be sampled in 1987.

Major Assemblies of Native Grasses. Since 1977 the PMC has conducted four large scale assemblies of native grasses with the assistance of SCS field office personnel. These individuals located natural (native) stands then collected and shipped the vegetative subsamples. Nursery maintenance and evaluation work will be or has been performed by PMC personnel for 2 projects (little bluestem and big bluestem), while 2 others (western wheatgrass and blue grama) are handled by ARS plant breeders.

Project 38I338G. Assembly and evaluation of big bluestem, (Andropogon gerardii).

Objective: Assemble, evaluate, develop, and release cooperatively and adapted variety and/or varieties of big bluestem for conservation use in the following MLRA's: 56, 57, 88, 90, 91, 93, 102A, 102B, 103, 104, and 105.

Collection: October 15-18, 1985

Transplant Date: May 27 - June 13, 1986

Status: A total of 326 accessions were collected in Minnesota and eastern South Dakota. Individual plantlets were separated, transplanted into containers, and grown in the PMC greenhouse from March to May, 1986. More than 4,000 individual plants were transplanted to an initial evaluation nursery at the ARS Station at Mandan, ND. Survival was excellent. The nursery will be irrigated in 1987 to simulate the higher rainfall conditions where the plants originated. Data collected in 1987 will include survival, vigor, disease, plant size, and leafiness.

Project 38I010H Evaluation of western wheatgrass, Agropyron smithii

Project 38I011H Evaluation of blue grama, Bouteloua gracilis

Cooperators: The USDA, Soil Conservation Service (SCS), Plant Materials Center, Bismarck, ND, in cooperation with USDA-Agricultural Research Service (ARS), Northern Great Plains Research Center, Mandan, ND, and the Office of Surface Mines (OSM). Dr. Reed Barker, Plant Geneticist, is study coordinator.

Assembly: The initial phase involved the assembly and planting of vegetative field collections of western wheatgrass and blue grama from the western and Northern Great Plains Land Resource Areas 53, 54, 58, 60, 61, and 63 in North and South Dakota.

Current status: The assemblies of western wheatgrass and blue grama were completed during 1977. The projects were designed to systematically sample the ecotypic variation that occurs in these two species in western North and South Dakota. A total of 10,350 vegetative samples were collected by the SCS during September 1977. Five samples of each species were collected on 549 sites in South Dakota and on 486 sites in North Dakota.

Western wheatgrass

Initial evaluation notes were recorded by USDA-ARS on all plants in 1979. One thousand plants of western wheatgrass were selected for further evaluation and were transplanted to an advanced evaluation nursery in 1980. No data was recorded in 1981. In 1982 data collection on the selected plants included length of spread, density of spread and coloration. In 1983 a further 20% selection was made and seed collected from these plants will be planted in the greenhouse and evaluated for seedling vigor. Four hundred superior plants times 5 replications for a 2,000 total of plants were established vegetatively in the spring of 1984. This was the third cycle of recurrent selection used to identify superior plants. In 1985, data was collected from this third generation on the same agronomic traits recorded during earlier generations. Seed from the third cycle selection will be made available for testing in 1987.

Blue grama

Initial evaluations have been made on the assembly in 1981-82 and inflorescences from selected plants were collected for further study of apomixis. ARS personnel are developing a technique to determine degree of apomixis. No further progress has been reported by ARS in 1984. The PMC assisted with maintenance of the nursery in 1984 and 1985. In 1985, an initial selection of superior plants (top 10%) was made by Dr. Reed Barker (USDA-ARS). Vegetative plugs were removed with the assistance of the PMC. ARS personnel transplanted this material into cone-tainers in the greenhouse for outplanting in 1986.

Selection and Initial Seed Increase

Project 38I016H Initial increase of little bluestem Schizachyrium scoparium.

Cooperators: The USDA, Soil Conservation Service (SCS), Plant Materials Center, Bismarck, ND, in cooperation with the Office of Surface Mining (OSM).

Assembly: The initial phase involved the assembly and processing of vegetative field collections of little bluestem representative of the following Major Land Resource Areas in North Dakota, South Dakota and Minnesota: 53B, 53C, 54, 55A, 55B, 55C, 56, 57, 58C, 58D, 60, 61, 62, 63, 64, 66, 90, 91, 102A, 102B, 103, 104 and 105.

Current Status: Many of you in the field and area offices were involved in the initial assembly of little bluestem in ND, SD, and MN in 1979. The project has progressed well on schedule. More than 7,000 individual plants were evaluated from 1980-83. Superior plants were selected in 1983 and transplanted into isolated crossing blocks in June 1984. Plants were selected based on vigor, leafiness, disease resistance, plant size, and maturity. Because of the ecotypic variation and maturity differences, the selected plants were placed into 4 groups closely associated with the divisions in Major Land Resource Areas. These 4 regions are: 1. eastern North Dakota and north Central South Dakota, (ND-4114, a composite of 58 plants), 2. Western Dakotas (ND-4115, 68 plants), 3. eastern South Dakota and southern Minnesota (ND-4116, 76 plants), and 4. central and northeast Minnesota (ND-4117, 14 plants). Four separate germplasm blocks have been established. In 1985 a 5th group of short, early maturing plants were selected and established in an isolated crossing block. This composite will be tested for use as low maintenance cover in recreational area developments, transportation corridors and critical areas. Also in 1985, with the assistance of Dr. Jim Karns, Research Animal Scientist, USDA-ARS, Mandan, ND, 14 out of the total 68 plants from group 2 were sub-selected on the basis of higher protein content and digestability. These individuals (Group 6) will be increased and established in another crossing block in 1987.

Besides little bluestem, the following grasses were selected in 1984 and are now being increased in small breeder blocks or initial increase fields:

Project 38A111S - Initial seed increase of ND-3743 switchgrass. Established at the USDA-ARS Station, Mandan in 1982. Tall leafy, accession, maturing earlier than NDG-965-98. Collected by D. Strum, U.S. Fish and Wildlife Service, in 1980. Collected from a field of Nebraska-28 switchgrass.

Project 38A113S - Initial seed increase of ND-2100 European dunegrass. Strongly rhizomatous, vigorous grass with potential for stabilizing sandy soils, blowouts and other critical areas. Breeder block planted in 1984. Field expanded in 1985. Introduced from Europe.

Project 38A118S - Initial seed increase of ND-1105, sand bluestem. Uniform, open, spreading, sand bluestem with potential for native pasture on sandy sites. Pronounced pale blue color with villous (hairy) racemes. Breeder block established at PMC in 1985.

Final Evaluation and Release Schedule - Grasses:

<u>Accession No.</u>	<u>Species</u>	<u>Projected Year of Release</u>
Forestburg (SD-149) PI-478001	switchgrass <u>Panicum virgatum</u>	1986-87
Bonilla (SD-27) PI-315658	big bluestem <u>Andropogon gerardii</u>	1986-87
Tomahawk (ND-444) PI-478006	indiangrass <u>Sorghastrum nutans</u>	1987-88
NDG-4 PI-477994	big bluestem <u>Andropogon gerardii</u>	1987-88
NDG-965-98 PI-478002	switchgrass <u>Panicum virgatum</u>	1987-88
ND-95 PI-477995	prairie sandreed <u>Calimovilfa longifolia</u>	1992-93

FORB IMPROVEMENT

Forbs are an integral part of the native plant community in the Northern Great Plains. Identified seed sources or cultivars are needed for the revegetation of surface mined lands, wildlife habitat as well as the stabilization and beautification of disturbed areas, recreational developments and transportation corridors. Native forb and legumes from the Dakotas and Minnesota were assembled and evaluated from 1977 through 1983. Selected plants have since been transplanted or grown from seed in order to establish initial seed increase fields.

Selection and Initial Seed Increase

Project 38A109S - Initial seed increase of ND-3959 Maximilian sunflower.

Project 38A110S - Initial seed increase of ND-3651 Maximilian sunflower.

Selections were made in 1983 from an original assembly of 52 sources. Two accessions of Maximilian sunflower were established in separate fields at the PMC in 1983 and expanded in 1984. ND-3959 is a composite of 5 plants that mature earlier than ND-3651. This perennial warm season forb is best suited to moist sites and deeper soils. Maximilian sunflower is highly palatable and of good forage quality. The seeds are heavily utilized by song birds and other wildlife.

Project 38A123S - Initial seed increase of 47233T stiff sunflower. A composite of several accessions from North and South Dakota. This perennial warm season forb is adapted to dry, shallow soils and is highly palatable. One row was vegetatively established in 1986 for seed increase.

Project 38A119S - Initial seed increase of ND-1481 purple prairie clover. Originated from Lyman County, South Dakota. This perennial legume provides high quality forage as part of a range seeding mixture. Vegetative transplanting for seed increases will be done in 1987.

CULTURAL EVALUATIONS/SPECIAL PROJECTS

Evaluation of cultural production and establishment techniques are necessary for those species and cultivars where knowledge of effective propagation and increase methods are lacking. Demonstration plantings can serve this purpose, while simultaneously fulfilling an integral part of the information program. Informal trials or special studies on grass seeding techniques, grafting or rooting, seed stratification, and equipment application or modification are typical endeavors.

Project 38A409K - Evaluation and treatment of dormancy in bareroot seedlings of hackberry. Bareroot seedlings propagated by standard nursery practices have exhibited a high or highly variable degree of dormancy once outplanted. This apparent dormancy prevents seedlings from breaking bud in the normal (natural) amount of time, thereby increasing plant stress and reducing winter survival. To address this problem, the PMC is cooperating with Dr. Rich Cunningham (ARS-Mandan) on an experiment to compare various lifting, storage and conditioning treatments. Time of lifting (spring vs. fall) type of storage ("heel-in" bed vs. cooler), and sweating process (peat vs. shingletoe at 2 different temperatures) will be examined.

Current Status: In 1986 there was very little difference among the various treatments, they all appeared to break dormancy well. Data is not complete at this time. The experiment will be repeated in 1987 with some modifications in treatments.

GRASS SEED PRODUCTION

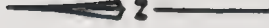
It is a primary objective and responsibility of the Plant Materials Center to grow and maintain a supply of foundation or foundation quality grass seed for officially and informally released varieties. This seed is made available to commercial seed producers for establishment of certified seed increase fields. In several cases, breeder seed must also be produced in carefully maintained and isolated breeder blocks. Additional seed increase fields of selected materials are established and maintained in order to provide a seed supply for comparative variety trails, demonstration plantings, other PMC's, research agencies and SCS District Cooperators who establish field plantings.

Plant Materials Distributed in South Dakota for Field Plantings in 1986.

A total of 1084 PLS pounds of grass and forb seed, 1980 seedlings were used to make 19 new field plantings. 622 PLS pounds of grass seed and 2 pounds of tree seed were provided to nurserymen and seed growers for commercial seed increase.

<u>Area</u>	<u>Grass Seed (PLS pounds)</u>	<u>Seedlings</u>	<u>Tree Seed (pounds)</u>
1	385	730	2
2	399	619	--
3	300	275	--
4	<u>--</u>	<u>356</u>	<u>--</u>
Total	1084	1980	2

- 19 -



Inactive - 371

(first number - active plantings)
(second number - inactive plantings)

Field plantings established in South Dakota in 1986.

711 Admin Area	506 MLRA	710 County	995 Field Office	503 Cooperator	502 Field 1/ Planting No	011 Cultivar	001 PI No.	012 Name	512 Purpose 2/
01	102A	Codington	Watertown	M. Maag	SD86004	Cardan	469226	green ash	SDIN
01	102A	Codington	Watertown	L. McClung	SD86005	Cardan	469226	green ash	SDIN
01	102A	Codington	Watertown	L. Bergh	SD86006	Cardan	469226	green ash	SDIN
01	051	Grant	Milbank	T. Rethke	SD86013	MDN-759	116252	pubescent wheatgrass	SDIN
01	051	Grant	Milbank	T. Rethke	SD86013	Pierre	476980	sideoats grama	SDIN
01	102B	McCook	Salem	J. Collignon	SD86007	Pierre	476980	sideoats grama	STAB
02	55C	Brule	Chamberlain	SDGF&P	SD86010	SD-149	478001	switchgrass	WLDF
02	102B	Clay	Vermillion	D. Druin	SD86016	ND-264	434443	alkali sacaton	SACT
02	102B	Clay	Vermillion	B. Orr	SD86017	ND-264	434443	alkali sacaton	SACT
02	102B	Clay	Vermillion	D. Emmick	SD86018	ND-264	434443	alkali sacaton	SACT
02	102B	Clay	Vermillion	D. Emmick	SD86019	ND-264	434443	alkali sacaton	SACT
02		Hutchinson	Menno	E. Knodel	SD86003	SD-149	478001	switchgrass	WLDF
02	102B	Hutchinson	Menno	C. Zeeb	SD86008	SD-149	478001	switchgrass	WLDF
03	53B	Campbell	Herreid	J. Wienjtes	SD86011	Cardan	469226	green ash	WIND
03	063	Lyman	Kennebec	C. Halvorson	SD86015	NDG-965-98	478002	switchgrass	EACW
03	063	Lyman	Kennebec	C. Halvorson	SD86015	Sodar	421021	streambank wheatgrass	EACW
03	063	Lyman	Kennebec	C. Halvorson	SD86015	Pierre	476980	sideoats grama	EACW
03	063	Lyman	Kennebec	C. Halvorson	SD86015	NDG-4	477994	big bluestem	EACW
03	53B	McPherson	Leola	R. Bieber	SD86014	Prairieland	16800T	altai wildrye	SPEC
03	066	Todd	Mission	B. Dunn	SD86002	SD-149	478001	switchgrass	SDIN
03	066	Todd	Mission	B. Dunn	SD86002	SD-27	315658	big bluestem	SDIN
03	53C	Walworth	Selby	L. Schanzenbach	SD86012	Cardan	469226	green ash	WIND

1/ First two numbers of the field planting number indicate the year of establishment.

2/ Purpose

SDIN - Seed increase
WLDF - Wildlife
PAST - Pasture
WIND - Windbreak
RNGE - Range
SPEC - Special
IRR - Irrigation

Active field plantings in South Dakota as of December 31, 1986.

711 Admin Area	506 MLRA	710 County	995		503 Cooperator	502		001 PI No.	512	
			Field Office	Field 1/ Planting No		Field 1/ Planting No	011 Cultivar		012 Name	Purpose 2/
01	102A	Brookings	Brookings	SD85007	Stime, M.	SD85007	Oahe	476982	hackberry (MDN-12003)	SDIN
01	102A	Brookings	Brookings	SD85008	Selken, M.	SD85008	ND-1879	11850T	honeylocust	SDIN
01	102A	Brookings	Brookings	SD85009	Olson, A.	SD85009	ND-629	477992	amur maple	SDIN
01	102A	Brookings	Brookings	SD85009	Olson, A.	SD85009	ND-1879	11850T	honeylocust	SDIN
01	102A	Codington	Watertown	SD83008	Big Sioux Nursery	SD83008	Midwest	478000	crabapple	SDIN
01	102A	Codington	Watertown	SD83008	Big Sioux Nursery	SD83008	Cardan	469226	green ash	SDIN
01	102A	Codington	Watertown	SD83008	Big Sioux Nursery	SD83008	Oahe	476982	hackberry	SDIN
01	102A	Codington	Watertown	SD84001	Ostrander, E.	SD84001	Cardan	469226	green ash	SPEC
01	102A	Codington	Watertown	SD85015	Big Sioux Nursery	SD85015	ND-177	5729T	European cotoneaster	SDIN
01	102A	Codington	Watertown	SD85015	Big Sioux Nursery	SD85015	Scarlet	478003	Mongolian cherry (ND-3)	SDIN
01	102A	Deuel	Clear Lake	SD83001	Jaeger, A.	SD83001	Cardan	469226	green ash	SDIN
01	102A	Grant	Milbank	SD85025	Claudill, F.	SD85025	SD-149	478001	switchgrass	SDIN
01	55B	Spink	Redfield	SD85021	Wagner, S	SD85021	ND-1879	11850T	honeylocust	WIND
02	55C	Beadle	Huron	SD85027	Flowers, C.	SD85027	ND-1879	11850T	honeylocust	WIND
02	55C	Brule	Chamberlain	SD85024	Lake, D.	SD85024	SD-149	478001	switchgrass	PAST
02	53	Hand	Miller	SD85022	Sargent, B.	SD85022	ND-1879	11850T	honeylocust	WIND
02	53	Hand	Miller	SD85023	Peterman, C.	SD85023	Oahe	476982	hackberry (MDN-12003)	WIND
02	102B	Hutchinson	Menno	SD85005	Groen, D.	SD85005	SD-149	478001	switchgrass	WLDF
02	102B	Hutchinson	Menno	SD85006	Fischer, D.	SD85006	SD-149	478001	switchgrass	WLDF
02	53C	Hyde	Highmore	SD85003	SDSU Exp. Sta.	SD85003	ND-20	5731T	arnold hawthorn	IRR
02	53C	Hyde	Highmore	SD85003	SDSU Exp. Sta.	SD85003	ND-1879	11850T	honeylocust	IRR
02	53C	Hyde	Highmore	SD85003	SDSU Exp. Sta.	SD85003	Oahe	476982	hackberry (MDN-12003)	IRR
02	53C	Hyde	Highmore	SD85003	SDSU Exp. Sta.	SD85003	Scarlet	478003	Mongolian cherry (ND-3)	IRR
02	53C	Hyde	Highmore	SD85003	SDSU Exp. Sta.	SD85003	ND-177	5729T	European cotoneaster	IRR
02	53C	Hyde	Highmore	SD85003	SDSU Exp. Sta.	SD85003	ND-629	477992	amur maple	IRR
02	53C	Hyde	Highmore	SD85004	Spilde, T.	SD85004	ND-629	477992	amur maple	WIND
02	53C	Hyde	Highmore	SD85004	Spilde, T.	SD85004	Oahe	476982	hackberry (MDN-12003)	WIND
02	53C	Hyde	Highmore	SD85028	SDSU Exp. Sta.	SD85028	ND-20	5731T	arnold hawthorn	IRR
02	53C	Hyde	Highmore	SD85028	SDSU Exp. Sta.	SD85028	ND-1879	11850T	honeylocust	IRR
02	53C	Hyde	Highmore	SD85028	SDSU Exp. Sta.	SD85028	Oahe	476982	hackberry (MDN-12003)	IRR
02	53C	Hyde	Highmore	SD85028	SDSU Exp. Sta.	SD85028	Scarlet	478003	Mongolian cherry (ND-3)	IRR
02	53C	Hyde	Highmore	SD85028	SDSU Exp. Sta.	SD85028	ND-177	5729T	European cotoneaster	IRR
02	53C	Hyde	Highmore	SD85028	SDSU Exp. Sta.	SD85028	ND-629	477992	amur maple	IRR

Active field plantings in South Dakota as of December 31, 1986

711		995		502		503		502		001		012		512		22	
Admin	506	710	Field	Cooperator	Planting No	011	PI No.	Name									
Area	MLRA	County	Office			Cultivar											Purpose 2/
03	53B	McPherson	Leola	Vilhauer, L.	SD85016	ND-1879	11850T	honeylocust									WIND
03	53B	McPherson	Leola	Traxinger, M	SD85017	ND-1879	11850T	honeylocust									WIND
03	53B	McPherson	McIntosh	Jacobs, S.	SD85018	ND-629	477992	amur maple									WIND
03	53B	McPherson	McIntosh	Jacobs, S.	SD85018	Oahe	476982	hackberry (MDN-12003)									WIND
03	53B	McPherson	McIntosh	Jacobs, S.	SD85018	ND-1879	11850T	honeylocust									WIND
03	53B	McPherson	McIntosh	Kerstein, J.	SD85019	ND-1879	11850T	honeylocust									WIND
03	53B	McPherson	McIntosh	Kerstein, J.	SD85019	Oahe	476982	hackberry (MDN-12003)									WIND
03	53B	McPherson	McIntosh	Kerstein, J.	SD85019	ND-629	477992	amur maple									WIND
03	53B	McPherson	McIntosh	Petik, J.	SD85020	ND-629	477992	amur maple									WIND
03	53B	McPherson	McIntosh	Petik, J.	SD85020	Oahe	476982	hackberry (MDN-12003)									WIND
03	53B	McPherson	McIntosh	Petik, J.	SD85020	ND-1879	11850T	honeylocust									WIND
03	53C	Sully	Onida	Sully Co. SCD	SD83012	Cardan	469226	green ash									SPEC
04	64	Bennett	Martin	USDI-FWS	SD85001	ND-444	478006	indiangrass									WLDF
04	64	Bennett	Martin	USDI-FWS	SD85002	SD-149	478001	switchgrass									WLDF
04	64	Bennett	Martin	Fanning, P.	SD85014	ND-629	477992	amur maple									WIND
04	60A	Butte	Belle Fourche	Fenton Farms	SD85013	ND-1879	11850T	honeylocust									WIND
04	60A	Meade	Sturgis	Farmers Feed	SD85026	MDN-759	116252	pubescent wheatgrass									SDIN
04	61	Pennington	Rapid City	R. Cole Arbor	SD83017	Noreaster	19602T	poplar									SPEC
04	61	Pennington	Rapid City	R. Cole Arbor	SD83017	Imperial	432347	poplar									SPEC
04	61	Pennington	Rapid City	R. Cole Arbor	SD83017	Robusta	434233	poplar									SPEC
04	61	Pennington	Rapid City	R. Cole Arbor	SD83017	Northwest	19603T	poplar									SPEC
04	61	Pennington	Rapid City	R. Cole Arbor	SD83017	Siouxland	16288T	cottonwood									SPEC
04	63A	E.	Wall	USDI-FS	SD85011	Oahe	476982	hackberry (MDN-12003)									WIND
		Pennington															
04	54	Perkins	Bison	Kvanvig, K.	SD85012	Oahe	476982	hackberry (MDN-12003)									WIND
04	54	Perkins	Bison	Kvanvig, K.	SD85012	ND-629	477992	amur maple									WIND
04	54	Perkins	Bison	Kvanvig, K. & Seed	SD85012	ND-1879	11850T	honeylocust									WIND

1/ First two numbers of the field planting number indicate the year of establishment.

2/ Purpose

SDIN - Seed increase	WLDF - Wildlife
PAST - Pasture	WIND - Windbreak
RNGE - Range	SPEC - Special
IRR - Irrigation	

Field plantings placed in inactive status in South Dakota as of December 31, 1986.

711 Admin Area	506 MLRA	710 County	995		502		001 PI No.	012 Name	512 Purpose 2/
			Field Office	503 Cooperator	Field 1/ Planting No	011 Cultivar			
01	055B	Brown	Aberdeen	Podoll, L.	SD82001	ND-1863	5909T	honeylocust	WIND
01	102A	Day	Webster	Olson, F.	SD82004	ND-1863	5909T	honeylocust	WIND
01	102B	Lake	Madison	Wolf, T.	SD84005	SD-149	478001	switchgrass	PAST
02	63	Buffalo	Chamberlain	Krog, R.	SD84004	SD-149	478001	switchgrass	SDIN
03	54	Corson	McIntosh	Baumberger, H.	SD84002	Pierre	476980	sideoats	SDIN
03	53B	Edmunds	Ipswich	Fuhrman, N	SD82005	ND-1863	5909T	honeylocust	WIND
03	63	Jones	Murdo	Roghair, L.	SD82007	ND-14	478004	harbin pear	WIND
03	66	Todd	Mission	L7 Ranch	SD84003	SD-27	315658	big bluestem	SDIN

1/ First two numbers of the field planting number indicate the year of establishment.

2/ Purpose

SDIN - Seed increase
WLDF - Wildlife
PAST - Pasture
WIND - Windbreak
RNGE - Range
SPEC - Special

Field plantings terminated in South Dakota as of December 31, 1986.

711			995	502		
Admin	506	710	Field	Field 1/	011	001
Area	MLRA	County	Office	Planting No	Cultivar	PI No.
04	64	Bennett	Martin	Livermont, W. SD85010	Oahe	476982
					hackberry	hackberry
						476982
						012
						Name
						512
						Purpose 2/
						WIND

1/ First two numbers of the field planting number indicate the year of establishment.

2/ Purpose

- SDIN - Seed increase
- WLDF - Wildlife
- PAST - Pasture
- WIND - Windbreak
- RNGE - Range
- SPEC - Special
- IRR - Irrigation

A SUMMARY OF HERRACEOUS FIELD PLANTINGS IN SOUTH DAKOTA
10/27/1987

* 504	506	507	509	711	505	503	001	002	502	517	801	531	523	830	833	821	910	713
ST	MLRA	SOIL SERIES	SOIL	ADM	CNT		ACCN	PLANT	FIELD	PURP	YR	AMT	SD	STD	VIG	WDC	ADPT	STAT
			TEXT	AREA	NUM	COOPERATOR	NUMBER	SYMBOL	PLNT NO		RC	ACRE	RATE	VIS				
**	SD	060A LOHMILLER	SICL		93	K MCNENNY	469236	AGSM	SD83019	SDIN	*84		10.0	5	3	3	3	1
*	SD	060A LOHMILLER	SICL		93	K MCNENNY	469236	AGSM	SD83019	SDIN	*85		10.0	55	3	5	1	1
*	SD	102A PEEVER	CL		109	SISSETON HIGH SCHOOL	478007	STVI4	SD80010	DEMO	*84	1.0	8.0		7	3	3	1
*	SD	102A PEEVER	CL		109	SISSETON HIGH SCHOOL	478007	STVI4	SD80010	DEMO	*85	1.0	8.0	6	1	5	3	1
*	SD	055 TETONKA	SIL	1		D JESSEN	477994	ANGE	SD70015	SDIN	*84	8.0	10.0	2	3	1	3	1
*	SD	055 TETONKA	SIL	1		D JESSEN	477994	ANGE	SD70015	SDIN	*85	8.0	10.0	6	3	3	3	1
*	SD	102A VIEVNA	L	1	11	H HARTENHOFF	9002194	PAVI2	SD69003	PAST	*84	2.0	8.0	3	1	3	3	1
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	315658	ANGE	SD70003	PAST	*80	8.0	4.0	8	3	1	3	1
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	315658	ANGE	SD70003	PAST	*82	8.0	4.0	7	3	1	3	1
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	315658	ANGE	SD70003	PAST	*83	8.0	4.0	6	5	1	3	1
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	315658	ANGE	SD70003	PAST	*84	8.0	4.0	7	7	1	3	1
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	478001	PAVI2	SD70003	PAST	*80	8.0	4.0	7	3	1	3	1
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	478001	PAVI2	SD70003	PAST	*82	8.0	4.0	6	5	1	3	1
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	478001	PAVI2	SD70003	PAST	*83	8.0	4.0	4	3	1	3	1
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	478001	PAVI2	SD70003	PAST	*84	8.0	4.0	3	5	1	3	1
*	SD	102A AHNBERG-POINSETT	SI	1	11	S COTTON	9005159	ANGE	SD72003	PAST	*84		4.0	2	3	1	3	1
*	SD	102A AHNBERG-POINSETT	SI	1	11	S COTTON	476980	BOCU	SD72003	PAST	*84		10.0	2	3	1	3	1
*	SD	102A POINSETT	SI	1	11	S COTTON	478001	PAVI2	SD72003	PAST	*80		10.0	9	1	1	3	1
*	SD	102A POINSETT	SI	1	11	S COTTON	478001	PAVI2	SD72003	PAST	*82		10.0	3	3	1	3	1
*	SD	102A POINSETT	SI	1	11	S COTTON	478001	PAVI2	SD72003	PAST	*83		10.0	1	1	1	3	1
*	SD	102A POINSETT	SI	1	11	S COTTON	478001	PAVI2	SD72003	PAST	*84		10.0	2	3	1	3	1
*	SD	102A AHNBERG-POINSETT	SIL	1	11	S COTTON	434347	SONU2	SD72003	PAST	*84		10.0	2	3	1	3	1
*	SD	102A ESTELLINE	SIL	1	11	K WHEELER	9002194	PAVI2	SD73008	PAST	*84	6.0	4.0	7	1	1	3	1
*	SD	102A ESTELLINE	SIL	1	11	K WHEELER	478001	PAVI2	SD74015	PAST	*80	7.0	4.0	1	1	1	3	1
*	SD	102A ESTELLINE	SIL	1	11	K WHEELER	478001	PAVI2	SD74015	PAST	*82	7.0	4.0	1	1	1	3	1
*	SD	102A ESTELLINE	SIL	1	11	K WHEELER	478001	PAVI2	SD74015	PAST	*83	7.0	4.0	2	3	1	3	1
*	SD	102A ESTELLINE	SIL	1	11	K WHEELER	478001	PAVI2	SD74015	PAST	*84	7.0	4.0	7	1	1	3	1
*	SD	102A BROOKINGS	SICL	1	11	J CHRISTOPHERSON	478001	PAVI2	SD75003	EACW	*82	1.0		5	1	3	3	1
*	SD	102A BROOKINGS	SICL	1	11	J CHRISTOPHERSON	478001	PAVI2	SD75003	EACW	*83	1.0		3	3	3	3	1
*	SD	102A BROOKINGS	SICL	1	11	J CHRISTOPHERSON	478001	PAVI2	SD75003	EACW	*84	1.0		4	5	1	3	1
*	SD	102 POINSETT	SIL	1	11	D WALGENBACH	9006125	SCSC	SD75004		*84	1.0		4	3	3	3	1
*	SD	102A POINSETT	SIL	1	11	A SWENSON	478001	PAVI2	SD75005	PAST	*80	6.0	5.0	7	3	1	3	1
*	SD	102A POINSETT	SIL	1	11	A SWENSON	478001	PAVI2	SD75005	PAST	*82	6.0	5.0	8	7	1	3	1
*	SD	102A POINSETT	SIL	1	11	A SWENSON	478001	PAVI2	SD75005	PAST	*83	6.0	5.0	8	3	1	3	1
*	SD	102A POINSETT	SIL	1	11	A SWENSON	478001	PAVI2	SD75005	PAST	*84	6.0	5.0	3	1	3	3	1
*	SD	102A POINSETT	SIL	1	11	A SWENSON	9006125	SCSC	SD75005	PAST	*84	3.0	2.0	2	1	3	3	1

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP (Purpose)
- 801 YR RC (Year of record)
- 531 AMT ACRE (Number of acres)
- 523 SD RATE (Seeding rate)
- 830 STD VIS (Visual rating of stand or plants per square yard)
- 833 VIG (Plant vigor)
- 821 WDC (Weed competition)
- 910 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

A SUMMARY OF HERBACEOUS FIELD PLANTINGS IN SOUTH DAKOTA
10/27/1987

* ST	504	506	507	509	711	505	503	001	002	002	PLANT	502	517	801	531	523	830	833	821	910	713
SOIL	TEXT	AREA	NUM	COOPERATOR	ACCN	PLANT	FIELD	NO	PURP	YR	RC	AMT	SD	RATE	VIS	WJC	ADPT	STAT			
SD	102A	POINSETT	1	11	A	SWENSON	434347	SONU2	SD75005	PAST	*84	3.0	5.0	4	3	3	3	1	3	1	
SD	102A	POINSETT	1	11	A	SWENSON	478006	SONU2	SD75005	PAST	*80	3.0	4.0	7	3	1	3	1	3	1	
SD	102A	POINSETT	1	11	A	SWENSON	478006	SONU2	SD75005	PAST	*82	3.0	4.0	3	7	1	3	1	3	1	
SD	102A	POINSETT	1	11	A	SWENSON	478006	SONU2	SD75005	PAST	*83	3.0	4.0	5	3	3	3	1	3	1	
SD	102A	POINSETT	1	11	A	SWENSON	478006	SONU2	SD75005	PAST	*84	3.0	4.0	3	3	3	3	1	3	1	
SD	102A	POINSETT	1	11	A	SWENSON	478006	SONU2	SD75005	PAST	*85	3.0	4.0	3	3	3	3	1	3	1	
SD	102A	POINSETT	1	11	A	SWENSON	478006	SONU2	SD75005	PAST	*85	3.0	4.0	3	3	3	3	1	3	1	
SD	102A	VIENNA-LISMORE	1	11	E	BALO	478001	PAVI2	SD80003	PAST	*80	6.0	6.0	5	3	3	3	1	3	1	
SD	102A	VIENNA-LISMORE	1	11	E	BALO	478001	PAVI2	SD80003	PAST	*82	6.0	6.0	2	3	1	3	1	3	1	
SD	102A	VIENNA-LISMORE	1	11	E	BALO	478001	PAVI2	SD80003	PAST	*83	6.0	5.0	5	3	1	3	1	3	1	
SD	102A	VIENNA-LISMORE	1	11	E	BALO	478001	PAVI2	SD80003	PAST	*84	6.0	6.0	3	3	1	3	1	3	1	
SD	102A	SINAI	1	11	L	OLESEN	478001	PAVI2	SD80004	PAST	*82	9.0	3.0	1	3	1	3	1	3	1	
SD	102A	SINAI	1	11	L	OLESEN	478001	PAVI2	SD80004	PAST	*83	9.0	3.0	4	5	1	3	1	3	1	
SD	102A	SINAI	1	11	L	OLESEN	478001	PAVI2	SD80004	PAST	*84	9.0	3.0	2	3	1	3	1	3	1	
SD	102A	FORMAN	1	39	J	DAILEY	478001	PAVI2	SD81001	PAST	*81	5.0	5.0	8	9	3	3	1	3	1	
SD	102A	FORMAN	1	39	J	DAILEY	478001	PAVI2	SD81001	PAST	*82	5.0	5.0	9	9	9	9	1	3	1	
SD	102A	FORMAN	1	39	J	DAILEY	478001	PAVI2	SD81001	PAST	*83	5.0	5.0	9	9	9	9	1	3	1	
SD	102A	FORMAN	1	39	J	DAILEY	478001	PAVI2	SD81001	PAST	*84	5.0	5.0	4	3	1	3	1	3	1	
SD	102A	FORMAN	1	39	R	AKIN	478001	PAVI2	SD81002	PAST	*81	4.0	4.0	3	3	1	3	1	3	1	
SD	102A	FORMAN	1	39	R	AKIN	478001	PAVI2	SD81002	PAST	*82	4.0	4.0	1	1	1	1	1	3	1	
SD	102A	FORMAN	1	39	R	AKIN	478001	PAVI2	SD81002	PAST	*83	4.0	4.0	3	5	1	3	1	3	1	
SD	102A	FORMAN	1	39	R	AKIN	478001	PAVI2	SD81002	PAST	*84	4.0	4.0	1	3	1	3	1	3	1	
SD	102A	FORMAN	1	39	J	DAILEY	478001	PAVI2	SD82002	PAST	*84	5.0	5.0	9	7	9	3	1	3	1	
SD	102A	FORMAN	1	39	J	DAILEY	478001	PAVI2	SD82002	PAST	*86	5.0	5.0	45	3	3	3	1	3	1	
SD	102A	FORMAN	1	39	J	DAILEY	478001	PAVI2	SD82002	PAST	*86	5.0	5.0	45	3	3	3	1	3	1	
SD	102	VIENNA	1	51	V	MEYER	478001	PAVI2	SD85025	SDIN	*85	3.8	4.4	36	3	7	3	3	3	A	
SD	102	VIENNA	1	51	V	MEYER	478001	PAVI2	SD85025	SDIN	*86	3.8	4.4	3	3	3	3	3	3	A	
SD	102	PEEVER	1	51	T	RETHKE	476980	BOCU	SD86013	SDIN	*86	3.0	.7	3	3	3	3	3	3	A	
SD	102	PEEVER	1	51	T	RETHKE	476980	BOCU	SD86013	SDIN	*86	3.0	.7	3	3	3	3	3	3	A	
SD	102A	HOUEK	1	77	WILKINSON	BROS.	478001	PAVI2	SD79003	PAST	*82	5.0	5.0	1	1	1	1	1	1	1	
SD	102A	HOUEK	1	77	WILKINSON	BROS.	478001	PAVI2	SD79003	PAST	*84	5.0	5.0	1	1	1	1	1	1	1	
SD	102A	HOUEK	1	77	WILKINSON	BROS.	478001	PAVI2	SD79003	PAST	*85	5.0	5.0	35	1	1	1	1	1	1	
SD	102A	HOUEK	1	77	WILKINSON	BROS.	478001	PAVI2	SD79003	PAST	*85	5.0	5.0	35	1	1	1	1	1	1	
SD	102	HOUEK	1	77	WILKINSON	BROS.	478002	PAVI2	SD79003		*82	5.0	5.0	1	1	1	1	1	1	1	
SD	102	HOUEK	1	77	WILKINSON	BROS.	478002	PAVI2	SD79003		*83	5.0	5.0	2	3	1	1	1	1	1	
SD	102	HOUEK	1	77	WILKINSON	BROS.	478002	PAVI2	SD79003		*84	5.0	5.0	2	7	3	3	1	3	1	

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

A SUMMARY OF HERBACEOUS FIELD PLANTINGS IN SOUTH DAKOTA
10/27/1987

* 504	506	507	509	711	505	503	001	002	502	517	801	531	523	830	833	821	910	713
ST	MLRA	SOIL SERIES	SOIL ADM	CVT	COOPERATOR	ACCN	PLANT	SYMBOL	FIELD	PURP	RC	ACRE	SD	VIS	VIG	WJC	ADPT	STAT
			TEXT	AREA	NUM				PLNT	NO			RATE					
* **	SD	102	40UDEK	1	77	WILKINSON BRCS.	478002	PAVI2	SD79003		*85	5.0	5.0	25	7	5	3	1
*	SD	102A	HOUEK	1	77	WILKINSON BRCS	478002	PAVI2	SD79003	PAST	*85			25	7	5	3	1
*	SD	102A	POINSETT	1	77	R EASLAND	478001	PAVI2	SD83002	PAST	*84		4.0	3	3	3	3	1
*	SD	102A	POINSETT	1	77	R EASLAND	478001	PAVI2	SD83002	PAST	*84		4.0	4	5	3	3	1
*	SD	102A	POINSETT	1	77	R EASLAND	478001	PAVI2	SD83002	PAST	*85		4.0	30	3	3	1	1
*	SD	102A	POINSETT	1	77	R EASLAND	478001	PAVI2	SD83002	PAST	*85			30	3	3	1	1
*	SD	102A		1	77	R EASLAND	478001	PAVI2	SD83020	RNGE	*85			20	1	5	1	1
*	SD	102A	LAMO-EGAN-ETHAN	1	79	D STORER	478001	PAVI2	SD83004	PAST	*83		5.0	2	1	1	3	1
*	SD	102A	LAMO-EGAN-ETHAN	1	79	D STORER	478001	PAVI2	SD83004	PAST	*84		5.0	2	1	1	3	1
*	SD	102A	LAMO-EGAN-ETHAN	1	79	D STORER	478001	PAVI2	SD83004	PAST	*85		5.0	60	1	3	1	1
*	SD	102B	LAMO-EGAN-ETHAN	1	79	D STORER	478001	PAVI2	SD83004	PAST	*85			60	1	3	1	1
*	SD	055	ECKMAN	1	91	JARRETT RANCHES	315666	ANGE	SD65001	SDIN	*84	1.0			3	1	3	1
*	SD	102A	PEEVER	1	109	SISSETON HIGH SCH00L	477993	AGSM	SD80010	DEMO	*84	2.0		1	1	3	3	1
*	SD	102A	PEEVER	1	109	SISSETON HIGH SCH00L	477994	ANGE	SD80010	DEMO	*85			6	1	5	1	1
*	SD	102A	PEEVER	1	109	SISSETON HIGH SCH00L	476981	B0CU	SD80010	DEMO	*84	1.0	8.0	2	1	1	3	1
*	SD	102A	PEEVER	1	109	SISSETON HIGH SCH00L	478001	PAVI2	SD80010	DEMO	*85			25	3	5	1	1
*	SD	102A	PEEVER	1	109	SISSETON HIGH SCH00L	478007	STVI4	SD80010	DEMO	*85			6	1	5	3	1
*	SD	102A	WAUBAY	1	109	HARTFORD BEACH ST PK	421520	PAVI2	SD83007	WLDF	*84	.1	1.0	8	1	1	3	1
*	SD	102A	WAUBAY	1	109	HARTFORD BEACH ST PK	421520	PAVI2	SD83007	WLDF	*85	.1	1.0	20	3	1	3	1
*	SD	102A	WAUBAY	1	109	HARTFORD BEACH ST PK	469228	PAVI2	SD83007	WLDF	*84	.1	1.0	2	1	1	1	1
*	SD	102A	WAUBAY	1	109	HARTFORD BEACH ST PK	469228	PAVI2	SD83007	WLDF	*85	.1	1.0	25	1	1	1	1
*	SD	102A		1	109	HARTFORD BEACH ST PK	478001	PAVI2	SD83007	WLDF	*83	1.0	10.0	2		3	3	1
*	SD	102A		1	109	HARTFORD BEACH ST PK	478001	PAVI2	SD83007	WLDF	*84	1.0	10.0	3	5	1	3	1
*	SD	102A		1	109	HARTFORD BEACH ST PK	478001	PAVI2	SD83007	WLDF	*85	1.0	10.0	10	5	1	5	1
*	SD	102A		1	109	HARTFORD BEACH ST PK	478002	PAVI2	SD83007		*83	1.0	10.0	2	2	3	3	1
*	SD	102A		1	109	HARTFORD BEACH ST PK	478002	PAVI2	SD83007		*84	1.0	10.0	2	3	1	3	1
*	SD	102A		1	109	HARTFORD BEACH ST PK	478002	PAVI2	SD83007		*85	1.0	10.0	10	7	1	5	1
*	SD	102A	WAUBAY	1	109	HARTFORD BEACH ST PK	9023429	PAVI2	SD83007	WLDF	*84	1.0	10.0	2	3	1	3	1
*	SD	102A	WAUBAY	1	109	HARTFORD BEACH ST PK	9023429	PAVI2	SD83007	WLDF	*85	1.0	10.0	8	5	1	1	1
*	SD	055	TETONKA	1	115	D JESSEN	477994	ANGE	SD70015	SDIN	*85			6	3	3	3	1
*	SD	055B	LADELLE	1	115	FISHER*S GROVE ST PK	315658	ANGE	SD82003	WLDF	*85			6	3	5	3	1
*	SD	055B	LADELLE	1	115	FISHER*S GROVE ST PK	478001	PAVI2	SD82003	WLDF	*85			10	3	3	3	1
*	SD	055B	LADELLE	1	115	FISHER*S GROVE ST PK	478006	SONU2	SD82003	WLDF	*82	3.0	10.0	9	5	9		1
*	SD	055B	LADELLE	1	115	FISHER*S GROVE ST PK	478006	SONU2	SD82003	WLDF	*83	3.0	10.0	6	3	3	3	1
*	SD	055B	LADELLE	1	115	FISHER*S GROVE ST PK	478006	SONU2	SD82003	WLDF	*84	3.0	10.0	5	3	5	3	1
*	SD	055B	LADELLE	1	115	FISHER*S GROVE ST PK	478006	SONU2	SD82003	WLDF	*85	3.0	10.0	8	3	5	5	1

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

A SUMMARY OF HERBACEOUS FIELD PLANTINGS IN SOUTH DAKOTA
10/27/1987

* 504	506	507	509	711	505	503	001	002	502	517	801	531	523	830	833	821	910	713
ST	MLRA	SOIL SERIES	SOIL	ADM	CVT		ACCN	PLANT	FIELD	PURP	YR	AMT	SD	STD	VIS	WDC	ADPT	STAT
TEXT	AREA	NUM	COOPERATOR				NUMBER	SYMBOL	PLNT NO		RC	ACRE	RATE	VIS				

*	SD	0558	LADELLE	SIL	1	115	FISHER'S GROVE ST PK	478006	SONU2	SD82003	WLOF	*85			3	5		1
*	SD	0558	LADELLE	SIL	1	115	FISHER'S GROVE ST PK	315658	ANGE	SD82014	WLOF	*85		5	1	5	3	I
*	SD	0558	LADELLE	SIL	1	115	FISHER'S GROVE ST PK	478001	PAVI2	SD82014	WLOF	*85		10	3	5	3	I
*	SD	0558	LADELLE	SIL	1	115	FISHER'S GROVE ST PK	478006	SONU2	SD82014	WLOF	*85		7	3	5	3	I
*	SD	055	HOUEK	L	2	5	W PIPER	9006125	SCSC	SD72019	RNGE	*84	10.0	3	1	1	3	I
*	SD	055	HOUEK-PROSPER	L	2	5	D SHUEMAKER	421025	FE0V	SD72020		*84		8	9	1	9	I
*	SD	055	ENET	SL	2	5	SD DEPT OF HIGHWAYS	9006125	SCSC	SD72021		*84	3.0	4	3	1	3	I
*	SD	055	HECLA	FSL	2	5	W PIPER	476980	BOCU	SD73029	SDIN	*84	8.0	2	3	3	3	I
*	SD	055C	HOUEK	L	2	5	A GUTORMSON	434040	ELTR3	SD83009	SDIN	*84		3	3	6	3	I
*	SD	055C	HOUEK	L	2	5	A GUTORMSON	434040	ELTR3	SD83009		*85	.5		3	5		I
*	SD	055C	HOUEK	L	2	5	A GUTORMSON	434040	ELTR3	SD83009	SDIN	*85	.5		3	5		I
*	SD	102			2	9	D FERWERDA	66515	ASCI4	SD73036		*85		30	3	3	1	I
*	SD	102			2	9	D FERWERDA	278698	COVA2	SD73036		*85		30	3	3	1	I
*	SD	55C	HIGHMORE JAVA	SIL	2	15	D LAKE	478001	PAVI2	SD85024	PAST	*85	8.5	6	3	5	3	A
*	SD	55C	HIGHMORE JAVA	SIL	2	15	D LAKE	478001	PAVI2	SD85024	PAST	*86	8.5	30		3	1	A
*	SD	055C		SIL	2	15	SD GAME,FISH&PARKS	478001	PAVI2	SD86010	WLOF	*86	8.0	3		5	1	A
*	SD	055C		SIL	2	15	SD GAME,FISH&PARKS	478001	PAVI2	SD86010	WLOF	*86	8.0	3		5	1	A
*	SD	063B	WENDTE-JVREE	SICL	2	17	R KROG	478001	PAVI2	SD84004	SDIN	*85		8	5	5	3	I
*	SD	063B	WENDTE-JVREE	SICL	2	17	R KROG	478001	PAVI2	SD84004	SDIN	*86		32	3	3	1	I
*	SD	102	TRENT-MOODY	SICL	2	27	E MOORE	66515	ASCI4	SD73037		*85		0	0	3	0	I
*	SD	102	TRENT-MOODY	SICL	2	27	E MOORE	278698	COVA2	SD73037		*85		3	3	3	3	I
*	SD	102	TRENT-MOODY	SICL	2	27	E MOORE	306182	LOC06	SD73037		*85		0	0	3	0	I
*	SD	102	BUSE		2	27	J HEISINGER	66515	ASCI4	SD73039		*85		7	3	3	7	I
*	SD	102	BUSE		2	27	J HEISINGER	278698	COVA2	SD73039		*85		7	3	3	7	I
*	SD	102	BUSE		2	27	J HEISINGER	306182	LOC06	SD73039		*85		0	0	3	7	I
*	SD	055C	TETONKA	SIL	2	43	P FINK	422030	PHAR3	SD71025	PAST	*84	3.0	0	3	1	3	I
*	SD				2	53	W MARTIN	478007	STVI4	SD67015		*85		0	7	9	3	I
*	SD		LAKOMA	CL	2	53	W WHITLEY	478001	PAVI2	SD70025	FORG	*85		1	5	3	9	I
*	SD		LAKOMA	CL	2	53	W WHITLEY	478006	SONU2	SD70025	FORG	*85		0	0	3	0	I
*	SD	063	ANSELMO	SIL	2	53	M JONS	436704	ALAR	SD71019		*85		40	1	1	1	I
*	SD	063		FSL	2	53	H CARLSON	9006125	SCSC	SD71020		*85		3	1	1	1	I
*	SD	055			2	59	W HERMAN	436704	ALAR	SD68029	PAST	*85		90	1	1	1	I
*	SD	102			2	67	M ULMER	278698	COVA2	SD76014		*85		8	5	3	3	I
*	SD	102B	CLARNO	L	2	67	D GROEN	478001	PAVI2	SD85005	WLOF	*85	3.5	3		5	3	A
*	SD	102B	CLARNO	L	2	67	D GROEN	478001	PAVI2	SD85005	WLOF	*86	3.5	15	1	7	1	A
*	SD	102B	CLARNO	L	2	67	D FISCHER	478001	PAVI2	SD85006	WLOF	*85	3.5	2		7	3	A

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

A SUMMARY OF HERBACEOUS FIELD PLANTINGS IN SOUTH DAKOTA
10/27/1987

ST	504	506	507	509	711	505	503	001	002	502	517	801	531	523	830	833	821	910	713
				SOIL	ADM	CNT		ACCN	PLANT	FIELD		YR	AMT	SD	STD	VIG	WDC	ADPT	STAT
		MLRA	SOIL	TEXT	AREA	NUM	COOPERATOR	NUMBER	SYMBOL	PLNT	NO	PURP	RC	ACRE	RATE	VIS			
*	SD	102B	CLARNO	L	2	67	D FISCHER	478001	PAVI2	SD85006	WLDF	*86	3.0	3.5	50	1	3	1	A
*	SD				2	67	E KNODEL	478001	PAVI2	SD86003	WLDF	*86	.5	.4	60		7	1	A
*	SD				2	67	E KNODEL	478001	PAVI2	SD86003	WLDF	*86	.5	.4	60		7	1	A
*	SD	102B			2	57	C ZEEB	478001	PAVI2	SD86008	WLDF	*86	1.0	4.0			7	1	A
*	SD	102B			2	67	C ZEEB	478001	PAVI2	SD86008	WLDF	*86	1.0	4.0			7	1	A
*	SD				2	135	DEPT OF GF&P	278698	COVA2	SD72027		*85			40	7	5	9	I
*	SD				2	135	BOY SCOUT CAMP	278698	COVA2	SD73040		*85			45	7	7	0	I
*	SD	054	RHOADS-DAGLUM	L	3	31	H BAUMBERGER	476980	BOCU	SD84002	SDIN	*84	10.0	8.0	1	3		3	A
*	SD	054	RHOADS-DAGLUM	L	3	31	H BAUMBERGER	476980	BOCU	SD84002	SDIN	*85				1	7	3	A
*	SD	054	RHOADS-DAGLUM	L	3	31	H BAUMBERGER	476980	BOCU	SD84002	SDIN	*85	10.0	8.0		1	7	3	A
*	SD	054			3	41	A ENRIGHT	478002	PAVI2	SD82009		*83	1.0		8	1	3	3	I
*	SD	053B	WILLIAMS-BOWBELL	L	3	45	A WIEDERRICH	477993	AGSM	SD81004	PAST	*84		3.0	3	1	1	3	I
*	SD	053B	WILLIAMS-BOWBELL	L	3	45	A WIEDERRICH	478007	STVI4	SD81004	PAST	*84		7.0	3	1	1	3	I
*	SD	053B	WILLIAMS-BOWBELL	L	3	45	A WIEDERRICH	478007	STVI4	SD81004	PAST	*85		7.0	500	3	1	1	I
*	SD	053B	WILLIAMS-BOWBELL	L	3	45	A WIEDERRICH	478007	STVI4	SD81004	PAST	*85		7.0	500	3	1	1	I
*	SD	053B	WILLIAMS-BOWBELL	L	3	45	A WEIDERRICH	478001	PAVI2	SD82006	PAST	*82		4.0	9	5			I
*	SD	053B	WILLIAMS-BOWBELL	L	3	45	A WEIDERRICH	478001	PAVI2	SD82006	PAST	*83		4.0	3	5			I
*	SD	053B	WILLIAMS-BOWBELL	L	3	45	A WEIDERRICH	478001	PAVI2	SD82006	PAST	*84		4.0	1	1	1	3	I
*	SD	102A	LAKOMA	CL	3	53	W WHITLEY	478001	PAVI2	SD70025	PAST	*80	5.0		6	7	3	3	I
*	SD	102A	LAKOMA	CL	3	53	W WHITLEY	478001	PAVI2	SD70025	PAST	*82	5.0		9		1	9	I
*	SD	102A	LAKOMA	CL	3	53	W WHITLEY	478001	PAVI2	SD70025	PAST	*85	5.0		1	5	3	9	I
*	SD	053C	HIGHMORE-EAKIN		3	65	T NESS	477993	AGSM	SD83013		*84		4.0	6	3	3	3	I
*	SD	053C	HIGHMORE-EAKIN		3	65	T H NESS	477993	AGSM	SD83013		*85			40	3	3	3	I
*	SD	053C	HIGHMORE-EAKIN		3	65	T NESS	477993	AGSM	SD83013		*85		4.0	40	3	3	3	I
*	SD	053C	HIGHMORE-EAKIN		3	65	T NESS	476980	BOCU	SD83013		*84		10.0	9	3	3	3	I
*	SD	053C	HIGHMORE-EAKIN		3	65	T NESS	476980	BOCU	SD83013		*85		10.0	3	5	3	3	I
*	SD	053C	HIGHMORE-EAKIN		3	65	T H NESS	476980	BOCU	SD83013		*85			3	5	3	3	I
*	SD	053C	HIGHMORE-EAKIN		3	65	T NESS	478007	STVI4	SD83013		*84		3.0	7	3	3	3	I
*	SD	053C	HIGHMORE-EAKIN		3	65	T NESS	478007	STVI4	SD83013		*85			20	3	5	3	I
*	SD	053C	HIGHMORE-EAKIN		3	65	T NESS	478007	STVI4	SD83013		*85		3.0	20	3	5	3	I
*	SD	063	OPAL	C	3	85	C HALVORSON	421021	AGDAR	SD86015	EACW	*86	1.7	4.1	27		3	3	A
*	SD	063	OPAL	C	3	85	C HALVORSON	421021	AGDAR	SD86015	EACW	*86	1.7	4.1	27		3	3	A
*	SD	063	OPAL	C	3	85	C HALVORSON	477994	ANGE	SD86015	EACW	*86	1.7	1.3	11		3	3	A
*	SD	063	OPAL	C	3	85	C HALVORSON	477994	ANGE	SD86015	EACW	*86	1.7	1.3	11		3	3	A
*	SD	063	OPAL	C	3	85	C HALVORSON	476980	BOCU	SD86015	EACW	*86	1.7	2.3	19		3	3	A
*	SD	063	OPAL	C	3	85	C HALVORSON	476980	BOCU	SD86015	EACW	*86	1.7	2.3	19		3	3	A

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

A SUMMARY OF HERBACEOUS FIELD PLANTINGS IN SOUTH DAKOTA
10/27/1987

ST	504	506	507	ST	MLRA	SOIL SERIES	509	711	505	503	001	ACCN	002	PLANT	502	FIELD	517	801	531	523	830	833	821	910	713
				TEXT	AREA	NUM	COOPERATOR	ADJ	CVT		NUMBER	SYMBOL	PLNT	NO	PURP	RC	YR	AMT	SD	RATE	VIS	VIG	WDC	ADPT	STAT
*	SD	063	OPAL	C	3	85	C HALVORSON				478002	PAVI2	SD86015	EACW	*86			1.7	.6	54			3		3 A
*	SD	063	OPAL	C	3	85	C HALVORSON				478002	PAVI2	SD86015	EACW	*86			1.7	.6	54			3		3 A
*	SD	053B	BRYANT-GRASSNA		3	89	R BIEBER				9016800	ELAN80	SD86014	SPEC	*86			11.3	.4	0			5		0 A
*	SD	053B	BRYANT-GRASSNA		3	89	R BIEBER				9016800	ELAN80	SD86014	SPEC	*86			11.3	.4	0			5		0 A
*	SD	063A	MITCHELL-GLENBUR	SIL	3	95	P HURST				476980	BOCU	SD83014	SDIN	*84				9.0	1	5			1	3 I
*	SD	063A	MITCHELL-GLENBUR	SIL	3	95	P HURST				476980	BOCU	SD83014	SDIN	*85				9.0	180	1			3	1 I
*	SD	063A	MITCHELL-GLENBUR	SIL	3	95	D HURST				476980	BOCU	SD83014	SDIN	*85					180	1			3	1 I
*	SD	102A	PEEVER	CL	3	109	SISSETON HIGH SCHOOL				477994	ANGE	SD80010	SDIN	*82			1.0	9.0	6	5			9	3 I
*	SD	102A	PEEVER	CL	3	109	SISSETON HIGH SCHOOL				477994	ANGE	SD80010	SDIN	*83			1.0	9.0	4	1			3	1 I
*	SD	102A	PEEVER	CL	3	109	SISSETON HIGH SCHOOL				477994	ANGE	SD80010	SDIN	*85			1.0	9.0	6	1			5	1 I
*	SD	102A	PEEVER	CL	3	109	SISSETON HIGH SCHOOL				478001	PAVI2	SD80010	SDIN	*82			8.0	4.0	4	5			9	3 I
*	SD	102A	PEEVER	CL	3	109	SISSETON HIGH SCHOOL				478001	PAVI2	SD80010	SDIN	*83			8.0	4.0	4	5			3	1 I
*	SD	102A	PEEVER	CL	3	109	SISSETON HIGH SCHOOL				478001	PAVI2	SD80010	SDIN	*84			8.0	4.0	4	4			1	3 I
*	SD	102A	PEEVER	CL	3	109	SISSETON HIGH SCHOOL				478001	PAVI2	SD80010	SDIN	*85			8.0	4.0	4	3			3	1 I
*	SD	102A	PEEVER	CL	3	109	SISSETON HIGH SCHOOL				478006	SONU2	SD80010	SDIN	*82			1.0	9.0	25	3			5	3 I
*	SD	102A	PEEVER	CL	3	109	SISSETON HIGH SCHOOL				478006	SONU2	SD80010	SDIN	*83			1.0	9.0	8	5			9	3 I
*	SD	102A	PEEVER	CL	3	109	SISSETON HIGH SCHOOL				478006	SONU2	SD80010	SDIN	*84			1.0	9.0	8	1			3	3 I
*	SD	102A	PEEVER	CL	3	109	SISSETON HIGH SCHOOL				478006	SONU2	SD80010	SDIN	*85			1.0	9.0						3 I
*	SD	055B	LADELLE	SIL	3	115	FISHER'S GROVE ST PK				315658	ANGE	SD82003	WLDF	*82			1.0	9.0	2	5			7	5 I
*	SD	055B	LADELLE	SIL	3	115	FISHER'S GROVE ST PK				315658	ANGE	SD82003	WLDF	*82			3.0	10.0	7	5			9	3 I
*	SD	055B	LADELLE	SIL	3	115	FISHER'S GROVE ST PK				315658	ANGE	SD82003	WLDF	*83			3.0	10.0	6	3			3	3 I
*	SD	055B	LADELLE	SIL	3	115	FISHER'S GROVE ST PK				315658	ANGE	SD82003	WLDF	*84			3.0	10.0	5	3			3	3 I
*	SD	055B	LADELLE	SIL	3	115	FISHER'S GROVE ST PK				315658	ANGE	SD82003	WLDF	*85			3.0	10.0	6	3			5	3 I
*	SD	055B	LADELLE	SIL	3	115	FISHERS GROVE ST PK				478001	PAVI2	SD82003	WLDF	*82			3.0	4.0	7	5			9	3 I
*	SD	055B	LADELLE	SIL	3	115	FISHERS GROVE ST PK				478001	PAVI2	SD82003	WLDF	*82			3.0	4.0	7	5			9	3 I
*	SD	055B	LADELLE	SIL	3	115	FISHERS GROVE ST PK				478001	PAVI2	SD82003	WLDF	*83			3.0	4.0	6	3				3 I
*	SD	055B	LADELLE	SIL	3	115	FISHERS GROVE ST PK				478001	PAVI2	SD82003	WLDF	*83			3.0	4.0	6	3				3 I
*	SD	055B	LADELLE	SIL	3	115	FISHERS GROVE ST PK				478001	PAVI2	SD82003	WLDF	*83			3.0	4.0	5	3				3 I
*	SD	055B	LADELLE	SIL	3	115	FISHERS GROVE ST PK				478001	PAVI2	SD82003	WLDF	*84			3.0	4.0	5	3			5	3 I
*	SD	055B	LADELLE	SIL	3	115	FISHERS GROVE ST PK				478001	PAVI2	SD82003	WLDF	*85			3.0	4.0	5	3			5	3 I
*	SD	053C	AGAR-HOVEN	SIL	3	119	D TRUMBLE				477993	AGSM	SD80019	RNGE	*84			10.0	4.0	10	3			3	3 I
*	SD	053C	AGAR-HOVEN	SIL	3	119	D TRUMBLE				476980	BOCU	SD80019	RNGE	*84			10.0	6.0	1	1			1	3 I
*	SD	053C	AGAR-HOVEN	SIL	3	119	D TRUMBLE				478007	STVI4	SD80019	RNGE	*84			10.0	10.0	1	1			1	3 I
*	SD	053C	AGAR-HOVEN	SIL	3	119	D TRUMBLE				478007	STVI4	SD80019	RNGE	*84			10.0	10.0	1	1			1	3 I
*	SD	053C	AGAR-HOVEN	SIL	3	119	D TRUMBLE				478007	STVI4	SD80019	RNGE	*85					80	3			3	1 I
*	SD	063H	MILLBORO	SIC	3	121	W FERGUSON				116252	AGINT	SD82010	SDIN	*84			10.0	10.0	80	3			3	1 I
*	SD	066	VETOL	FSL	3	121	L7 RANCH				315658	ANGE	SD84003	SDIN	*84			9.0	3.0	2	1			1	3 I

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

A SUMMARY OF HERRACEOUS FIELD PLANTINGS IN SOUTH DAKOTA
10/27/1987

504	506	507	509	711	505	503	001	002	502	517	801	531	523	830	833	821	910	713	
ST	MLRA	SOIL	SERIES	SOIL	ADM	CNT	ACCN	PLANT	FIELD	PURP	YR	AMT	SD	STD	VIG	WDC	ADPT	STAT	
TEXT	AREA	NUM	COOPERATOR	TEXT	AREA	NUM	COOPERATOR	TEXT	AREA	NUM	COOPERATOR	TEXT	AREA	NUM	COOPERATOR	TEXT	AREA	NUM	COOPERATOR
SD	066	VETOL		FSL	3	121	L7 RANCH	315658	ANGE	SD84003	SDIN	*85	9.0	27	5	7	3	1	
SD	066	VETAL		FSL	3	121	L7 RANCH	315658	ANGE	SD84003	SDIN	*85		27	5	7	3	1	
SD	066	VETOL		FSL	3	121	L7 RANCH	315658	ANGE	SD84003	SDIN	*87	9.0	40	3	5	3	1	
SD	066	VETAL		FSL	3	121	L7 RANCH	315658	ANGE	SD84003	SDIN	*87		40	3	5	3	1	
SD	066	VETAL		FSL	3	121	B DUNN (L-7 RANCH)	315658	ANGE	SD86002	SDIN	*86	1.0	27		5	3	1	
SD	066	VETAL		FSL	3	121	B DUNN (L-7 RANCH)	315658	ANGE	SD86002	SDIN	*86	1.0	27		5	3	1	
SD	066	VETAL		FSL	3	121	B DUNN (L-7 RANCH)	478001	PAVI2	SD86002	SDIN	*86	2.0	20		5	3	1	
SD	066	VETAL		FSL	3	121	B DUNN (L-7 RANCH)	478001	PAVI2	SD86002	SDIN	*86	2.0	20		5	3	1	
SD	066	ANSELMO-HOLT		S	3	123	L ANDERSON	9006125	SCSC	SD67026			4.0	4	5	3	3	1	
SD	063A	LOWRY		SIL	3	129	CITY OF MOBRIDGE	476980	BOCU	SD81005		4.0	3.0	5	7	1	3	1	
SD	064	RICHFIELD		SICL	4	7	USDI-FWS-LACREEK REF	478001	PAVI2	SD85002	WLDF	*86		1	5	5	5	1	
SD	063B	WENDTE-OVREE		SICL	4	17	R KROG	478001	PAVI2	SD84004	SDIN	*84	5.0	5	4	9	3	1	
SD	063B	WENDTE-OVREE		SICL	4	17	R KROG	478001	PAVI2	SD84004	SDIN	*85	5.0	8	5	5	3	1	
SD	063B	WENDTE-OVREE		SICL	4	17	R KROG	478001	PAVI2	SD84004	SDIN	*86	5.0	32	3	3	1	1	
SD	060A	KYLE-BACA		SIC	4	19	FARMERS FEED & SEED	116252	AGINT	SD81006	SDIN	*84	5.0	1	1	1	3	1	
SD	060A	BIDMAN		SICL	4	19	FARMERS FEED & SEED	477993	AGSM	SD83015	SDIN	*84	8.0	2	3	3	3	1	
SD	060A	BIDMAN		SICL	4	19	FARMERS FEED & SEED	477993	AGSM	SD83015	SDIN	*86	8.0	20	3	3	3	1	
SD	060A	BIDMAN		SICL	4	19	FARMERS FEED & SEED	477993	AGSM	SD83015	SDIN	*86		20	3	3	3	1	
SD	061	KYLE		C	4	47	C KANNOLT	476983	STVI4	SD74014	RNGE	*84	8.0	5	3	1	3	1	
SD	061	KYLE		C	4	47	C KANNOLT	478007	STVI4	SD74014	RNGE	*84	10.0	8	7	1	3	1	
SD	061	KYLE		C	4	47	C KANNOLT	478007	STVI4	SD74014	RNGE	*85	10.0	18	1	1	1	1	
SD	061	KYLE		C	4	47	C KANNOLT	478007	STVI4	SD74014	RNGE	*85	10.0	18	1	1	1	1	
SD	063A	PIERRE		SIL	4	55	D OLDENBURG	476980	BOCU	SD82012	SDIN	*84	5.0	3	1	1	3	1	
SD	063A	PIERRE		C	4	55	M FOLAND	477993	AGSM	SD82013	RVGE	*84	10.0	4	1	1	3	1	
SD	063A	PIERRE		SIL	4	55	D OLDENBURG	476980	BOCU	SD83016	SDIN	*84	7.0	9	7	9	3	1	
SD	063A	PIERRE		SIL	4	55	D OLDENBURG	476980	BOCU	SD83016	SDIN	*85	4.0	35	3	5	1	1	
SD	063A	PIERRE		SIL	4	55	D OLDENBURG	476980	BOCU	SD83016	SDIN	*85	4.0	35	3	5	1	1	
SD	065	HIGHMORE		SIL	4	65	T NESS	478001	PAVI2	SD82008	PAST	*82	10.0	7	5	9	1	1	
SD	053C	HIGHMORE-EAKIN		LC	4	65	T NESS	478001	PAVI2	SD83013		*84	10.0	9	0	3	3	1	
SD	060A	HISLE-KYLE		SICL	4	93	KEFFELER HEREFORD FA	436704	ALAR	SD83018	SDIN	*85		80	3	5	3	1	
SD	060A	LOHMILLER		SICL	4	93	K MCNENNY	469236	AGSM	SD83019	SDIN	*85		55	3	5	1	1	
SD	064	KEOTA-KADOKA		SIL	4	121	EAGLE VALLEY RANCH	478001	PAVI2	SD80018	PAST	*80	10.0	3		3	1	1	
SD	064	KEOTA-KADOKA		SIL	4	121	EAGLE VALLEY RANCH	478001	PAVI2	SD80018	PAST	*82	10.0	2	3	1	3	1	
SD	063A	RABER		SIL	4	129	M STIEGELMEIER	478001	PAVI2	SD80021	WLDF	*82	5.0	3	5	1	3	1	
SD	063A	RABER		SIL	4	129	M STIEGELMEIER	478001	PAVI2	SD80021	WLDF	*83	5.0	1	3	1	3	1	
SD	063A	RABER		SIL	4	129	M STIEGELMEIER	478001	PAVI2	SD80021	WLDF	*84	5.0	2	1	1	3	1	

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

A SUMMARY OF DONILLA BIG BLUESTEM FIELD PLANTINGS IN SOUTH DAKOTA
11/09/1987

504	506	507	509	711	505	503	001	002	502	517	801	531	523	830	833	821	910	713
ST	MLRA	SOIL SERIES	SOIL	ADM	CNT	COOPERATOR	ACCN	PLANT	FIELD	PLNT NO	PJRP	YR	AMT	SD	VIS	WDC	ADPT	STAT
			TEXT	AREA	NUM		NUMBER	SYMBOL			RC	ACRE	RATE					
SD	102A	VOLGA	SICL	1	11	I SUNDAL	315658	ANGE	SD70003	PAST								1
SD	102A	VOLGA	SICL	1	11	I SUNDAL	315658	ANGE	SD70003	PAST	*80	8.0	4.0	8	3	1		3
SD	102A	VOLGA	SICL	1	11	I SUNDAL	315658	ANGE	SD70003	PAST	*82	8.0	4.0	7	3	1		3
SD	102A	VOLGA	SICL	1	11	I SUNDAL	315658	ANGE	SD70003	PAST	*83	8.0	4.0	6	5	1		3
SD	102A	VOLGA	SICL	1	11	I SUNDAL	315658	ANGE	SD70003	PAST	*84	8.0	4.0	7	7	1		3
SD	055B	LADELLE	SIL	1	115	FISHER'S GROVE	315658	ANGE	SD82003	WLDF				6	3			1
SD	055B	LADELLE	SIL	1	115	FISHER'S GROVE	315658	ANGE	SD82003	WLDF	*85			6	3	5		3
SD	055B	LADELLE	SIL	1	115	FISHER'S GROVE	315658	ANGE	SD82014	WLDF								1
SD	055B	LADELLE	SIL	1	115	FISHER'S GROVE	315658	ANGE	SD82014	WLDF	*85			5	1	5		3
SD	055B	LADELLE	SIL	3	115	FISHER'S GROVE	315658	ANGE	SD82003	WLDF	*82	3.0	10.0	7	5	9		1
SD	055B	LADELLE	SIL	3	115	FISHER'S GROVE	315658	ANGE	SD82003	WLDF	*83	3.0	10.0	6	3	3		3
SD	055B	LADELLE	SIL	3	115	FISHER'S GROVE	315658	ANGE	SD82003	WLDF	*84	3.0	10.0	5	3	3		3
SD	055B	LADELLE	SIL	3	115	FISHER'S GROVE	315658	ANGE	SD82003	WLDF	*85	3.0	10.0	6	3	5		3
SD	066	VETAL	FSL	3	121	L 7 RANCH	315658	ANGE	SD84003	SDIN								1
SD	066	VETOL	FSL	3	121	L7 RANCH	315658	ANGE	SD84003	SDIN	*84	9.0		2	5	3		3
SD	066	VETAL	FSL	3	121	L 7 RANCH	315658	ANGE	SD84003	SDIN	*85			27	5	7		3
SD	066	VETOL	FSL	3	121	L7 RANCH	315658	ANGE	SD84003	SDIN	*85	9.0		27	5	7		3
SD	066	VETOL	FSL	3	121	L7 RANCH	315658	ANGE	SD84003	SDIN	*87	9.0		40	3	5		3
SD	066	VETAL	FSL	3	121	L 7 RANCH	315658	ANGE	SD84003	SDIN	*87			40	3	5		3
SD	066	VETAL	FSL	3	121	B DUNN (L-7 RANCH)	315658	ANGE	SD86002	SDIN	*86	1.0	.8	27		5		3
SD	066	VETAL	FSL	3	121	3 DUNN (L-7 RANCH)	315658	ANGE	SD86002	SDIN	*86	1.0	.8	27		5		3

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP (Purpose)
- 801 YR RC (Year of record)
- 531 AMT ACRE (Number of acres)
- 523 SD RATE (Seeding rate)
- 830 STD VIS (Visual rating of stand or plants per square yard)
- 833 VIG (Plant vigor)
- 821 WDC (Weed competition)
- 910 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

A SUMMARY OF VOG-4 BIG BLUESTEM FIELD PLANTINGS IN SOUTH DAKOTA
11/12/1987

* 504	506	507	509	711	505	503	001	002	502	517	801	531	523	830	833	821	910	713
ST	MLRA	SOIL SERIES	SOIL-ADJ	TEXT AREA	NUM	COOPERATOR	ACCN NUMBER	PLANT SYMBOL	FIELD PLNT NO	PURP RC	YR	AMT ACRE	SD RATE	VIS	VIG	WDC	ADPT	STAT
***	SD	055	TETONKA	SIL	1	D JESSEN	477994	ANGE	SD70015	SDIN	*84	8.0	10.0	2	3	1	3	1
*	SD	055	TETONKA	SIL	1	D JESSEN	477994	ANGE	SD70015	SDIN	*85	8.0	10.0	5	3	3	3	1
*	SD	102A	PEEVER	CL	1	109 SISSETON HIGH SCHOOL	477994	ANGE	SD80010	DEMO								1
*	SD	102A	PEEVER	CL	1	109 SISSETON HIGH SCHOOL	477994	ANGE	SD80010	DEMO	*85			6	1	5	1	1
*	SD	055	TETONKA	SIL	1	115 D JESSEN	477994	ANGE	SD70015	SDIN								1
*	SD	055	TETONKA	SIL	1	115 D JESSEN	477994	ANGE	SD70015	SDIN	*85			6	3	3	3	1
*	SD	063	OPAL	C	3	85 C HALVORSON	477994	ANGE	SD86015	EACW	*86	1.7	1.3	11		3	3	4
*	SD	063	OPAL	C	3	85 C HALVORSON	477994	ANGE	SD86015	EACW	*86	1.7	1.3	11		3	3	4
*	SD	102A	PEEVER	CL	3	109 SISSETON HIGH SCHOOL	477994	ANGE	SD80010	SDIN	*82	1.0	9.0	6	5	9	3	1
*	SD	102A	PEEVER	CL	3	109 SISSETON HIGH SCHOOL	477994	ANGE	SD80010	SDIN	*83	1.0	9.0	4	1	3	3	1
*	SD	102A	PEEVER	CL	3	109 SISSETON HIGH SCHOOL	477994	ANGE	SD80010	SDIN	*85	1.0	9.0	6	1	5	1	1

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP (Purpose)
- 801 YR RC (Year of record)
- 531 AMT ACRE (Number of acres)
- 523 SD RATE (Seeding rate)
- 830 STD VIS (Visual rating of stand or plants per square yard)
- 833 VIG (Plant vigor)
- 821 WDC (Weed competition)
- 910 ADPT (Adaptation to site)
- 713-STAT (Status: active, inactive, terminated)

A SUMMARY OF INDIAN GRASS (SORGHASTRUM NUTANS (L.) VASH) FIELD PLANTINGS IN SOUTH DAKOTA
11/09/1987

504	506	507	509	711	505	503	001	002	517	801	531	523	830	833	821	910	713
ST	4LRA	SOIL SERIES	SOIL ADM	CNT	NUM	COOPERATOR	ACCN	PLANT	FIELD	YR	AMT	SD	STD	VIG	WDC	ADPT	STAT
			TEXT	AREA			NUMBER	SYMBOL	PLNT NO	PJRP	RC	RATE	VIS				
SD	102A	AHN3ERG-POINSEIT	SIL	1	11	S COTTON	434347	SONU2	SD72003	PAST	*84	10.0	2	3	1	3	1
SD	102A	POINSEIT	SIL	1	11	A SWENSON	434347	SONU2	SD75005	PAST	*84	6.0	4	3	3	3	1
SD	102A	POINSEIT	SIL	1	11	A SWENSON	478006	SONU2	SD75005	PAST							1
SD	102A	POINSEIT	SIL	1	11	A SWENSON	478006	SONU2	SD75005	PAST	*80	4.0	7	3	1	3	1
SD	102A	POINSEIT	SIL	1	11	A SWENSON	478006	SONU2	SD75005	PAST	*82	4.0	3	7	1	3	1
SD	102A	POINSEIT	SIL	1	11	A SWENSON	478006	SONU2	SD75005	PAST	*83	4.0	5	3	3	3	1
SD	102A	POINSEIT	SIL	1	11	A SWENSON	478006	SONU2	SD75005	PAST	*84	4.0	3	3	3	3	1
SD	102A	POINSEIT	SIL	1	11	A SWENSON	478006	SONU2	SD75005	PAST	*85		3	3	3	3	1
SD	102A	POINSEIT	SIL	1	11	A SWENSON	478006	SONU2	SD75005	PAST	*85	4.0	3	3	3	3	1
SD	053B	LADELLE	SIL	1	11	A SWENSON	478006	SONU2	SD82003	WLDF							1
SD	055B	LADELLE	SIL	1	11	FISHER'S GROVE ST PK	478006	SONU2	SD82003	WLDF	*82	10.0	9	5	9		1
SD	055B	LADELLE	SIL	1	11	FISHER'S GROVE ST PK	478006	SONU2	SD82003	WLDF	*83	10.0	6	3	3	3	1
SD	055B	LADELLE	SIL	1	11	FISHER'S GROVE ST PK	478006	SONU2	SD82003	WLDF	*84	10.0	5	3	5	3	1
SD	055B	LADELLE	SIL	1	11	FISHER'S GROVE ST PK	478006	SONU2	SD82003	WLDF	*85	10.0	8	3	5		1
SD	055B	LADELLE	SIL	1	11	FISHER'S GROVE ST PK	478006	SONU2	SD82003	WLDF	*85		8	3	5		1
SD	055B	LADELLE	SIL	1	11	FISHER'S GROVE ST PK	478006	SONU2	SD82014	WLDF			8	3	5		1
SD	055B	LADELLE	SIL	1	11	FISHER'S GROVE ST PK	478006	SONU2	SD82014	WLDF	*85		7	3	5	3	1
SD	055C		SIL	2	15	SD GAME,FISH&PARKS	478006	SONU2	SD86010	WLDF						4	
SD	055C		SIL	2	15	SD GAME,FISH&PARKS	478006	SONU2	SD86010	WLDF						4	
SD		LAKOMA	CL	2	53	W WHITLEY	478006	SONU2	SD70025	FORG							1
SD		LAKOMA	CL	2	53	W WHITLEY	478006	SONU2	SD70025	FORG	*85		0	0	3	0	1
SD	102A	PEEVER	CL	3	109	SISSETON HIG+ SC+00L	478006	SONU2	SD80010	SDIN	*82	9.0	8	5	9	3	1
SD	102A	PEEVER	CL	3	109	SISSETON HIG+ SC+00L	478006	SONU2	SD80010	SDIN	*83	9.0	8	1	3	3	1
SD	102A	PEEVER	CL	3	109	SISSETON HIG+ SC+00L	478006	SONU2	SD80010	SDIN	*84	9.0					1
SD	102A	PEEVER	CL	3	109	SISSETON HIG+ SC+00L	478006	SONU2	SD80010	SDIN	*85	9.0	2	5	7	5	1

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP. (Purpose)
- 801 YR RC (Year of record)
- 531 AMT ACRE (Number of acres)
- 523 SD RATE (Seeding rate)
- 830 STD VIS (Visual rating of stand or plants per square yard)
- 833 VIG (Plant vigor)
- 821 WDC (Weed competition)
- 910 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

A SUMMARY OF VOG-365-99 SWITCHGRASS FIELD PLANTINGS IN SOUTH DAKOTA
11/09/1987

504	506	507	509	711	505	503	001	002	502	517	801	531	523	830	833	821	910	713		
ST	MLRA	SOIL	SERIES	SOIL	ADM	CVT	ACCN	PLANT	FIELD	PLNT	NO	PJRP	RC	ACRE	SD	RATE	VIS	WDC	ADPT	STAT
TEXT	AREA	NUM	COOPERATOR	NUMBER	SYMBOL	PLNT	NO	PJRP	RC	ACRE	SD	RATE	VIS	WDC	ADPT	STAT				
SD	102A	40UDEK	L	1	77	WILKINSON	BRCS	478002	PAVI2	SD79003	PAST									
SD	102	40UDEK	L	1	77	WILKINSON	BRCS	478002	PAVI2	SD79003		*82	5.0	5.0	1	1	1	1	3	1
SD	102	40UDEK	L	1	77	WILKINSON	BRCS	478002	PAVI2	SD79003		*83	5.0	5.0	2	3	1	1	3	1
SD	102	40UDEK	L	1	77	WILKINSON	BRCS	478002	PAVI2	SD79003		*84	5.0	5.0	2	7	3	1	3	1
SD	102A	40UDEK	L	1	77	WILKINSON	BRCS	478002	PAVI2	SD79003	PAST	*85			25	7	5	3	1	
SD	102	40UDEK	L	1	77	WILKINSON	BRCS	478002	PAVI2	SD79003		*85	5.0	5.0	25	7	5	3	1	
SD	102A		SL	1	109	HARIFORD	BEACH	ST PK	478002	PAVI2	SD83007	*83	1.0	10.0	2	2	3	1	3	1
SD	102A		SL	1	109	HARIFORD	BEACH	ST PK	478002	PAVI2	SD83007	*84	1.0	10.0	2	3	1	1	3	1
SD	102A		SL	1	109	HARIFORD	BEACH	ST PK	478002	PAVI2	SD83007	*85	1.0	10.0	10	7	1	1	5	1
SD	054			3	41	A	ENRIGHT	478002	PAVI2	SD82009		*83	1.0		8	1	3	1	3	1
SD	063	OPAL	C	3	85	C	HALVORSON	478002	PAVI2	SD86015	EACW	*86	1.7	.6	54		3	3	3	4
SD	063	OPAL	C	3	85	C	HALVORSON	478002	PAVI2	SD86015	EACW	*86	1.7	.6	54		3	3	3	4

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP (Purpose)
- 801 YR RC (Year of record)
- 531 AMT ACRE (Number of acres)
- 523 SD RATE (Seeding rate)
- 830 STD VIS (Visual rating of stand or plants per square yard)
- 833 VIG (Plant vigor)
- 821 WDC (Weed competition)
- 910 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

A SUMMARY OF FORESTBURG SWITCHGRASS FIELD PLANTINGS IN SOUTH DAKOTA
11/09/1987

504	506	507	509	711	505	503	001	002	502	517	801	531	523	830	833	821	910	713
ST	HLRA	SOIL SERIES	SOIL ADM	CNT	NUM	COOPERATOR	ACCN NUMBER	PLANT SYMBOL	FIELD PLNT NO	PURP	YR RC	AMT ACRE	SD RATE	VIS	WDC	ADPT	STAT	
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	478001	PAVI2	SD70003	PAST								1
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	478001	PAVI2	SD70003	PAST	*80	8.0	4.0	7	3	1		3
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	478001	PAVI2	SD70003	PAST	*82	8.0	4.0	6	5	1		3
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	478001	PAVI2	SD70003	PAST	*83	8.0	4.0	4	3	1		3
*	SD	102A VOLGA	SICL	1	11	I SUNDAL	478001	PAVI2	SD70003	PAST	*84	8.0	4.0	3	5	1		3
*	SD	102A POINSETT	SIL	1	11	S COITON	478001	PAVI2	SD72003	PAST			10.0	9	1	1		3
*	SD	102A POINSETT	SI	1	11	S COITON	478001	PAVI2	SD72003	PAST	*80		10.0	3	3	1		3
*	SD	102A POINSETT	SI	1	11	S COITON	478001	PAVI2	SD72003	PAST	*82		10.0	1	1	1		3
*	SD	102A POINSETT	SI	1	11	S COITON	478001	PAVI2	SD72003	PAST	*83		10.0	2	3	1		3
*	SD	102A ESTELLIVE	SIL	1	11	K WHEELER	478001	PAVI2	SD73008	PAST								1
*	SD	102A ESTELLIVE	SIL	1	11	K WHEELER	478001	PAVI2	SD74015	PAST	*80	7.0	4.0	1	1	1		3
*	SD	102A ESTELLIVE	SIL	1	11	K WHEELER	478001	PAVI2	SD74015	PAST	*82	7.0	4.0	1	1	1		3
*	SD	102A ESTELLIVE	SIL	1	11	K WHEELER	478001	PAVI2	SD74015	PAST	*83	7.0	4.0	2	3	1		3
*	SD	102A ESTELLIVE	SIL	1	11	K WHEELER	478001	PAVI2	SD74015	PAST	*84	7.0	4.0	7	1	1		3
*	SD	102A BROOKINGS	SICL	1	11	J CHRISTOPHERSON	478001	PAVI2	SD75003	EACW	*82	1.0		5	1	3		3
*	SD	102A BROOKINGS	SICL	1	11	J CHRISTOPHERSON	478001	PAVI2	SD75003	EACW	*83	1.0		3	3	3		3
*	SD	102A BROOKINGS	SICL	1	11	J CHRISTOPHERSON	478001	PAVI2	SD75003	EACW	*84	1.0		4	5	1		3
*	SD	102A POINSETT	SIL	1	11	A SWENSON	478001	PAVI2	SD75005	PAST								1
*	SD	102A POINSETT	SIL	1	11	A SWENSON	478001	PAVI2	SD75005	PAST	*80	6.0	5.0	7	3	1		3
*	SD	102A POINSETT	SIL	1	11	A SWENSON	478001	PAVI2	SD75005	PAST	*82	6.0	5.0	8	7	1		3
*	SD	102A POINSETT	SIL	1	11	A SWENSON	478001	PAVI2	SD75005	PAST	*83	6.0	5.0	8	3	1		3
*	SD	102A POINSETT	SIL	1	11	A SWENSON	478001	PAVI2	SD75005	PAST	*84	6.0	5.0	3	1	3		3
*	SD	102A LISMORE & VIENNA	L	1	11	E BALO	478001	PAVI2	SD80003	PAST			5.0	5				1
*	SD	102A VIENNA-LISMORE	L	1	11	E BALO	478001	PAVI2	SD80003	PAST	*80		6.0	2	3	1		3
*	SD	102A VIENNA-LISMORE	L	1	11	E BALO	478001	PAVI2	SD80003	PAST	*82		5.0	5	3	1		3
*	SD	102A VIENNA-LISMORE	L	1	11	E BALO	478001	PAVI2	SD80003	PAST	*83		5.0	3	3	1		3
*	SD	102A VIENNA-LISMORE	L	1	11	E BALO	478001	PAVI2	SD80003	PAST	*84		5.0	3	3	1		3
*	SD	102A SINAI	SICL	1	11	L OLESEN	478001	PAVI2	SD80004	PAST								1
*	SD	102A SINAI	SICL	1	11	L OLESEN	478001	PAVI2	SD80004	PAST	*82	9.0	3.0	1	3	1		3
*	SD	102A SINAI	SICL	1	11	L OLESEN	478001	PAVI2	SD80004	PAST	*83	9.0	3.0	4	5	1		3
*	SD	102A SINAI	SICL	1	11	L OLESEN	478001	PAVI2	SD80004	PAST	*84	9.0	3.0	2	3	1		3
*	SD	102A FORMAN	SIL	1	39	J DAILEY	478001	PAVI2	SD81001	PAST								1
*	SD	102A FORMAN	SIL	1	39	J DAILEY	478001	PAVI2	SD81001	PAST	*81		5.0	8		3		1
*	SD	102A FORMAN	SIL	1	39	J DAILEY	478001	PAVI2	SD81001	PAST	*82		5.0	9	3	9		1

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

505 CNT NUM	(FIPS County Code)	833 VIG	(Plant vigor)
502 FIELD PLNT NO	(Field planting number: state, year planted, sequence)	821 WDC	(Weed competition)
517 PURP (Purpose)		910 ADPT	(Adaptation to site)
801 YR RC (Year of record)		713 STAT	(Status: active, inactive, terminated)
531 AMT ACRE (Number of acres)			
523 SD RATE (Seeding rate)			
830 STD VIS (Visual rating of stand or plants per square yard)			

A SUMMARY OF FORESTBURG SWITCHGRASS FIELD PLANTINGS IN SOUTH DAKOTA
11/09/1987

* 504	506	507	509	711	505	503	001	002	502	517	801	531	523	830	833	821	910	713
ST	4LRA	SOIL SERIES	SOIL	ADM	CNT	COOPERATOR	ACCN	PLANT	FIELD	NO	PJRP	RC	AMT	SD	VIG	WDC	ADPT	STAT
			TEXT	AREA	VUM		NUMBER	SYMBOL	PLNT			ACRE	RATE	VIS				
* **	SD 102A	FORMAN	SIL	1	39	J DAILEY	478001	PAVI2	S081001	PAST	*83		5.0	9	9	9	3	I
*	SD 102A	FORMAN	SIL	1	39	J DAILEY	478001	PAVI2	S081001	PAST	*84		5.0	4	3	1	3	I
*	SD 102A	FORMAN	SIL	1	39	R AKIN	478001	PAVI2	S081002	PAST								I
*	SD 102A	FORMAN	SIL	1	39	R AKIN	478001	PAVI2	S081002	PAST	*81		4.0	3		1		I
*	SD 102A	FORMAN	SIL	1	39	R AKIN	478001	PAVI2	S081002	PAST	*82		4.0	1	1	1	3	I
*	SD 102A	FORMAN	SIL	1	39	R AKIN	478001	PAVI2	S081002	PAST	*83		4.0	3	5	1	3	I
*	SD 102A	FORMAN	SIL	1	39	R AKIN	478001	PAVI2	S081002	PAST	*84		4.0	1	3	1	3	I
*	SD 102A	FORMAN	L	1	39	J DAILEY	478001	PAVI2	S082002	PAST								I
*	SD 102A	FORMAN	L	1	39	J DAILEY	478001	PAVI2	S082002	PAST	*84		5.0	9	7	9	3	I
*	SD 102A	FORMAN	L	1	39	J DAILEY	478001	PAVI2	S082002	PAST	*86		5.0	45	3	3	3	I
*	SD 102A	FORMAN	L	1	39	J DAILEY	478001	PAVI2	S082002	PAST	*86		45	45	3	3	3	I
*	SD 102	VIENNA LISMORE	SIL	1	51	V MEYER	478001	PAVI2	S085025	SDIN	*85	3.8	4.4	36		7	3	A
*	SD 102	VIENNA LISMORE	SIL	1	51	V MEYER	478001	PAVI2	S085025	SDIN	*86	3.8	4.4		3	3	3	A
*	SD 102A	HOUEK	L	1	77	WILKINSON BRCS	478001	PAVI2	S079003	PAST								I
*	SD 102A	HOUEK	L	1	77	WILKINSON BRCS	478001	PAVI2	S079003	PAST	*82		5.0	1	1	1	3	I
*	SD 102A	HOUEK	L	1	77	WILKINSON BRCS	478001	PAVI2	S079003	PAST	*84		5.0	1	1	1	3	I
*	SD 102A	HOUEK	L	1	77	WILKINSON BRCS	478001	PAVI2	S079003	PAST	*85		35	35	1	1	1	I
*	SD 102A	HOUEK	L	1	77	WILKINSON BRCS	478001	PAVI2	S079003	PAST	*85		35	35	1	1	1	I
*	SD 102A	POINSETT	SIL	1	77	R EASLAND	478001	PAVI2	S083002	PAST								I
*	SD 102A	POINSETT	SIL	1	77	R EASLAND	478001	PAVI2	S083002	PAST	*84		4.0	3	3	3	3	I
*	SD 102A	POINSETT	SIL	1	77	R EASLAND	478001	PAVI2	S083002	PAST	*84		4.0	4	5	3	3	I
*	SD 102A	POINSETT	SIL	1	77	R EASLAND	478001	PAVI2	S083002	PAST	*85		4.0	30	3	3	1	I
*	SD 102A	POINSETT	SIL	1	77	R EASLAND	478001	PAVI2	S083002	PAST	*85		4.0	30	3	3	1	I
*	SD 102A			1	77	R EASLAND	478001	PAVI2	S083020	RNGE								I
*	SD 102A			1	77	R EASLAND	478001	PAVI2	S083020	RNGE	*85			20	1	5	1	I
*	SD 102B	LAMO-EGAN-ETHAN	SICL	1	79	D STORER	478001	PAVI2	S083004	PAST								I
*	SD 102A	LAMO-EGAN-ETHAN	SICL	1	79	D STORER	478001	PAVI2	S083004	PAST	*83		5.0	2	1	1	3	I
*	SD 102A	LAMO-EGAN-ETHAN	SICL	1	79	D STORER	478001	PAVI2	S083004	PAST	*84		5.0	2	1	1	3	I
*	SD 102B	LAMO-EGAN-ETHAN	SICL	1	79	D STORER	478001	PAVI2	S083004	PAST	*85			60	1	3	1	I
*	SD 102A	LAMO-EGAN-ETHAN	SICL	1	79	D STORER	478001	PAVI2	S083004	PAST	*85		5.0	60	1	3	1	I
*	SD 102A	PEEVER	CL	1	109	SISSETON HIGH SCHOOL	478001	PAVI2	S080010	DEMO								I
*	SD 102A	PEEVER	CL	1	109	SISSETON HIGH SCHOOL	478001	PAVI2	S080010	DEMO	*85			25	3	5	1	I
*	SD 102A		SL	1	109	HARTFORD BEACH ST PK	478001	PAVI2	S083007	WLDF	*83	1.0	10.0	2		3	3	I
*	SD 102A		SL	1	109	HARTFORD BEACH ST PK	478001	PAVI2	S083007	WLDF	*84	1.0	10.0	3	5	1	1	I
*	SD 102A		SL	1	109	HARTFORD BEACH ST PK	478001	PAVI2	S083007	WLDF	*85	1.0	10.0	10	5	1	5	I
*	SD 055B	LADELLE	SIL	1	115	FISHER'S GROVE ST PK	478001	PAVI2	S082003	WLDF								I

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

A SUMMARY OF FORESTBURG SWITCHGRASS FIELD PLANTINGS IN SOUTH DAKOTA
11/09/1987

* 504	506	507	509	711	505	503	001	002	502	517	801	531	523	830	833	821	910	713
ST	MLRA	SOIL SERIES	SOIL TEXT	ADM AREA	CNT NUM	COOPERATOR	ACCN NUMBER	PLANT SYMBOL	FIELD PLNT NO	PJRP	YR RC	AMT ACRE	SD RATE	STO VIS	VIG	WJC	ADPT	STAT
*	SD	055B LADELLE	SIL	1	115	FISHER'S GROVE ST PK	478001	PAVI2	SD82003	WLDF	*85			10	3	3	3	1
*	SD	055B LADELLE	SIL	1	115	FISHER'S GROVE ST PK	478001	PAVI2	SD82014	WLDF				10	3	5	5	1
*	SD	055B LADELLE	SIL	1	115	FISHER'S GROVE ST PK	478001	PAVI2	SD82014	WLDF	*85			10	3	5	5	3
*	SD	55C HIGHMORE JAVA	SIL	2	15	D LAKE	478001	PAVI2	SD85024	PAST	*85	16.5	8.5	6		5	5	3
*	SD	55C HIGHMORE JAVA	SIL	2	15	D LAKE	478001	PAVI2	SD85024	PAST	*86	16.5	8.5	30	3	3	3	1
*	SD	055C	SIL	2	15	SD GAME,FISH&PARKS	478001	PAVI2	SD86010	WLDF	*86	6.0	8.0	3		5	5	1
*	SD	055C	SIL	2	15	SD GAME,FISH&PARKS	478001	PAVI2	SD86010	WLDF	*86	6.0	8.0	3		5	5	1
*	SD	063B WENDTE-DVREE	SICL	2	17	R KROG	478001	PAVI2	SD84004	SDIN								1
*	SD	063B WENDTE-DVREE	SICL	2	17	R KROG	478001	PAVI2	SD84004	SDIN	*85			8	5	5	5	3
*	SD	063B WENDTE-DVREE	SICL	2	17	R KROG	478001	PAVI2	SD84004	SDIN	*86			32	3	3	3	1
*	SD	LAKOMA	CL	2	53	W WHITLEY	478001	PAVI2	SD70025	FORG								1
*	SD	LAKOMA	CL	2	53	W WHITLEY	478001	PAVI2	SD70025	FORG	*85			1	5	3	3	9
*	SD	102B CLARNO	L	2	67	D GROEN	478001	PAVI2	SD85005	WLDF	*85	.8	3.5	3		5	5	3
*	SD	102B CLARNO	L	2	67	D GROEN	478001	PAVI2	SD85005	WLDF	*86	.8	3.5	15	1	7	7	1
*	SD	102B CLARNO	L	2	67	D FISCHER	478001	PAVI2	SD85006	WLDF	*85	3.0	3.5	2		7	7	3
*	SD	102B CLARNO	L	2	67	D FISCHER	478001	PAVI2	SD85006	WLDF	*86	3.0	3.5	50	1	3	3	1
*	SD			2	67	E KNODEL	478001	PAVI2	SD86003	WLDF	*86	.5	.4	60		7	7	1
*	SD			2	67	E KNODEL	478001	PAVI2	SD86003	WLDF	*86	.5	.4	60		7	7	1
*	SD	102B		2	67	C ZEEB	478001	PAVI2	SD86008	WLDF	*86	1.0	4.0			7	7	1
*	SD	102B		2	67	C ZEEB	478001	PAVI2	SD86008	WLDF	*86	1.0	4.0			7	7	1
*	SD	053B WILLIAMS-BOWBELL	L	3	45	A WEIDERRICH	478001	PAVI2	SD82006	PAST								1
*	SD	053B WILLIAMS-BOWBELL	L	3	45	A WEIDERRICH	478001	PAVI2	SD82006	PAST	*82		4.0	9	5			3
*	SD	053B WILLIAMS-BOWBELL	L	3	45	A WEIDERRICH	478001	PAVI2	SD82006	PAST	*83		4.0	3	5			3
*	SD	053B WILLIAMS-BOWBELL	L	3	45	A WEIDERRICH	478001	PAVI2	SD82006	PAST	*84		4.0	1	1	1	1	3
*	SD	102A LAKOMA	CL	3	53	W WHITLEY	478001	PAVI2	SD70025	PAST	*80	5.0		6	7	3	3	3
*	SD	102A LAKOMA	CL	3	53	W WHITLEY	478001	PAVI2	SD70025	PAST	*82			9		1	3	3
*	SD	102A LAKOMA	CL	3	53	W WHITLEY	478001	PAVI2	SD70025	PAST	*85	5.0		9		1	3	3
*	SD	102A PEEVER	CL	3	109	SISSETON HIGH SCHOOL	478001	PAVI2	SD70025	PAST	*85			1	5	3	3	3
*	SD	102A PEEVER	CL	3	109	SISSETON HIGH SCHOOL	478001	PAVI2	SD80010	SDIN	*82	8.0	4.0	4	5	9	9	3
*	SD	102A PEEVER	CL	3	109	SISSETON HIGH SCHOOL	478001	PAVI2	SD80010	SDIN	*83	8.0	4.0	5	1	3	3	3
*	SD	102A PEEVER	CL	3	109	SISSETON HIGH SCHOOL	478001	PAVI2	SD80010	SDIN	*84	8.0	4.0	4	3	3	1	3
*	SD	102A PEEVER	CL	3	109	SISSETON HIGH SCHOOL	478001	PAVI2	SD80010	SDIN	*85	8.0	4.0	25	3	3	5	1
*	SD	055B LADELLE	SIL	3	115	FISHERS GROVE ST PK	478001	PAVI2	SD82003	WLDF	*82	3.0	4.0	7	5	5	9	3
*	SD	055B LADELLE	SIL	3	115	FISHERS GROVE ST PK	478001	PAVI2	SD82003	WLDF	*82	3.0	4.0	7	5	5	9	3
*	SD	055B LADELLE	SIL	3	115	FISHERS GROVE ST PK	478001	PAVI2	SD82003	WLDF	*83	3.0	4.0	6	3	3	3	3
*	SD	055B LADELLE	SIL	3	115	FISHERS GROVE ST PK	478001	PAVI2	SD82003	WLDF	*83	3.0	4.0	5	3	3	3	3
*	SD	055B LADELLE	SIL	3	115	FISHERS GROVE ST PK	478001	PAVI2	SD82003	WLDF	*84	3.0	4.0	5	3	3	5	3

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

A SUMMARY OF FORESTBURG SWITCHGRASS FIELD PLANTINGS IN SOUTH DAKOTA
11/09/1987

504	506	507	509	711	505	503	001	002	502	517	801	531	523	830	833	821	910	713
ST	MLRA	SOIL SERIES	SOIL	AJM	CNT	COOPERATOR	ACCN	PLANT	FIELD	PJRP	RC	ACRE	SD	VIS	VIG	WJC	ADPT	STAT
			TEXT	AREA	NJM		NUMBER	SYMBOL	PLNT	NO			RATE					
*	SD	055B LADELLE	SIL	3	115	FISHERS GROVE ST PK	478001	PAVI2	SD82003	WLDF	*84	3.0	4.0	5	3	5	3	1
*	SD	055B LADELLE	SIL	3	115	FISHERS GROVE ST PK	478001	PAVI2	SD82003	WLDF	*85	3.0	4.0	10	3	3	3	1
*	SD	066 VETAL	FSL	3	121	B DUNN (L-7 RANCH)	478001	PAVI2	SD86002	SDIN	*86	2.0	.4	20		5	3	A
*	SD	066 VETAL	FSL	3	121	B DUNN (L-7 RANCH)	478001	PAVI2	SD86002	SDIN	*86	2.0	.4	20		5	3	A
*	SD	063A RABER	SIL	3	129	M STIEGELMEIER	478001	PAVI2	SD80021	WLDF								1
*	SD	064 RICHFIELD		4	7	USDI,FWS,LACREEK REF	478001	PAVI2	SD85002	WLDF	*86							A
*	SD	064 RICHFIELD		4	7	USDI,FWS,LACREEK REF	478001	PAVI2	SD85002	WLDF	*86			1	5	5	5	A
*	SD	063B WENDTE-DVREE	SICL	4	17	R KRGG	478001	PAVI2	SD84004	SDIN	*84		5.0	5	4	9	3	1
*	SD	063B WENDTE-DVREE	SICL	4	17	R KRGG	478001	PAVI2	SD84004	SDIN	*85		5.0	8	5	5	3	1
*	SD	063B WENDTE-DVREE	SICL	4	17	R KRGG	478001	PAVI2	SD84004	SDIN	*86		5.0	32	3	3	1	1
*	SD	065 HIGHMORE	SIL	4	55	T NESS	478001	PAVI2	SD82008	PAST	*82		10.0	7	5	9	1	1
*	SD	053C HIGHMORE-EAKIN		4	55	T NESS	478001	PAVI2	SD83013		*84		10.0	9	0	3	3	A
*	SD	064 KEOTA-KADOKA	SIL	4	121	EAGLE VALLEY RANCH	478001	PAVI2	SD80018	PAST	*80		10.0	3		3	1	1
*	SD	064 KEOTA-KADOKA	SIL	4	121	EAGLE VALLEY RANCH	478001	PAVI2	SD80018	PAST	*82		10.0	2	3	1	3	1
*	SD	063A RABER	SIL	4	129	M STIEGELMEIER	478001	PAVI2	SD80021	WLDF	*82		5.0	3	5	1	3	1
*	SD	063A RABER	SIL	4	129	M STIEGELMEIER	478001	PAVI2	SD80021	WLDF	*83		5.0	1	3	1	3	1
*	SD	063A RABER	SIL	4	129	M STIEGELMEIER	478001	PAVI2	SD80021	WLDF	*84		5.0	2	1	1	3	1

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

A SUMMARY OF WOODY FIELD PLANTINGS IN SOUTH DAKOTA
11/04/1987

	504	506	507	503	711	505	503	001	002	502	517	699	518	532	552	553	525	527	713
	ST	MLRA	SOIL SERIES	SOIL	ADMIN	CNT	COOPERATOR	ACCN	PLVT	FIELD	PLNT NO	PJRP	RC	PLTS	SUR	FOL	WDC	ADPT	STAT
..	SD	102A	KRANZBURG	SIL	1	11	L BECKMAN	9005562	AMAL2	SD69004	WLDF	*84	25	97	1.0	.5	1	5	1
*	SD	102A	KRANZBURG	SIL	1	11	L BECKMAN	9006059	PRAM	SD69004	WLDF	*84	25	38	1.2	.5	1	1	1
*	SD	102A	KRANZBURG	SIL	1	11	L BECKMAN	9012608	PRVI	SD69004	WLDF	*84	25	95	1.0	.5	1	5	1
*	SD	102A	KRANZBURG	SIL	1	11	L BECKMAN	9006054	PRSI80	SD70002	WLDF	*84	10	97	.8	.4	1	3	1
*	SD	102	KRANZBURG	SIL	1	11	L BECKMAN	9005552	ACSA2	SD71003	WLDF	*84	50	97	3.0	1.5	1	3	1
*	SD	102	KRANZBURG	SIL	1	11	L BECKMAN	9005564	AMFR	SD71003	WLDF	*84	25	95	.8	.5	1	7	1
*	SD	102	KRANZBURG	SIL	1	11	L BECKMAN	9005731	CRAR	SD71003	WLDF	*84	20	99	1.5	.5	1	1	1
*	SD	102	KRANZBURG	SIL	1	11	L BECKMAN	9005968	JUCI	SD71003	WLDF	*84	10	80	1.5	1.2	1	3	1
*	SD	102	KRANZBURG	SIL	1	11	L BECKMAN	9005369	JUMA80	SD71003	WLDF	*84	5	99	2.5	1.0	1	3	1
*	SD	102	KRANZBURG	SIL	1	11	L BECKMAN	9005971	JUNI	SD71003	WLDF	*84	10	99	1.6	.3	1	3	1
*	SD	102	KRANZBURG	SIL	1	11	L BECKMAN	9019977	JUNI	SD71003	WLDF	*84	10	90	2.5	.5	1	3	1
*	SD	102	KRANZBURG	SIL	1	11	L BECKMAN	9006054	PRSI80	SD71003	WLDF	*84	65	92	.8	.3	1	5	1
*	SD	102	KRANZBURG	SIL	1	11	L BECKMAN	9006084	PRVI	SD71003	WLDF	*84	25	95	1.5	.5	1	3	1
*	SD	102	KRANZBURG	SIL	1	11	L BECKMAN	9012508	PRVI	SD71003	WLDF	*84	15	98	.8	.4	1	5	1
*	SD	102	ESTELLINE	SIL	1	11	V HILL	477992	ACGI	SD76003	WIND	*82	25	90	.7	.5	1	3	1
*	SD	102A	POINSETT	SL	1	11	M STIME	476982	CEOC	SD85007	SOIN	*85	132	21			1	1	A
*	SD	102A	POINSETT	SL	1	11	M STIME	476982	CEOC	SD85007	SOIN	*86	132	98	1.3	1.0	1	1	A
*	SD	102A	VIENNA	L	1	11	M SELKEN	9011850	GLSI80	SD85008	SOIN	*85	36	97			1	1	A
*	SD	102A	VIENNA	L	1	11	M SELKEN	9011850	GLSI80	SD85008	SOIN	*87	36	81	2.5	.3	3	3	A
*	SD	102A	POINSETT	SIL	1	11	A OLSON	477992	ACGI	SD85009	SOIN	*85	89	90			3	3	A
*	SD	102A	POINSETT	SIL	1	11	A OLSON	477992	ACGI	SD85009	SOIN	*86	89	84	1.8	.3	5	5	3
*	SD	102A	POINSETT	SIL	1	11	A OLSON	9011850	GLSI80	SD85009	SOIN	*85	74	86			3	3	A
*	SD	102A	POINSETT	SIL	1	11	A OLSON	9011850	GLSI80	SD85009	SOIN	*86	74	70	2.0	.5	5	5	3
*	SD	055B	GREAT BEUD	SI	1	13	M OLSON	9006228	SYVI80	SD67001	WIND	*84	376	30	.3	.3	9	3	1
*	SD	053B	WILLIAM	L	1	13	E BOKELHEID	476982	CEOC	SD68001	WIND	*84	40	90	1.9	1.3	3	1	1
*	SD	053B	WILLIAM	L	1	13	E BOKELHEID	9006079	PRTE80	SD68001	WIND	*84	83	90	.5	.8	3	3	1
*	SD	053B	WILLIAM	L	1	13	E BOKELHEID	9012508	PRVI	SD68001	WIND	*84	24	99	1.2	1.0	3	1	1
*	SD	055B	JARNES	L	1	13	L PODOLL	9005909	GLTR	SD82001	WIND	*85	70	70	2.5	.2	9	7	1
*	SD	055B	BARNES	L	1	13	L PODOLL	9005909	GLTR	SD82001	WIND	*86	50	50	4.0	3.0	9	7	1
*	SD	102A	BARNES	SIL	1	25	E PETERS	9006080	PRIO80	SD67003		*84	95	50	.5	.4	3	5	1
*	SD		FORMAN	SI	1	25	J FOILES	469225	FRPE	SD67004		*84	75	90	2.8	1.4	1	5	1
*	SD	102	ECKMAN	FSL	1	25	J KIRKEBY	9005562	AMAL2	SD69005		*84	50	60	.5	.5	3	5	1
*	SD	055	BEADLE	C	1	25	D ARNE	477999	LOSI80	SD69006		*84	50	95	1.0	.5	1	5	1
*	SD	102	POINSETT	SIL	1	25	J GUSENIUS	9005561	AMAL2	SD69007		*84	50	47	.4	.4	9	7	1
*	SD	102	FORDVILLE	SL	1	25	M SEEFELDT	478000	MABAM8	SD70004		*84	15	47	.8	.5	9	5	1
*	SD	102	ECKMAN	FSL	1	25	L BEVING	9005727	COAC80	SD70006		*84	100	35	.5	.4	3	5	1

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP (Purpose)
- 599 YR RC (Year of record)
- 518 NUM PLTS (Number of plants)
- 532 SUR PCT (Percent survival)
- 552 FOL HT (Height at end of season)
- 553 FOL WID (Crown width at end of season)
- 525 WDC (Weed competition)
- 627 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

A SUMMARY OF WOODY FIELD PLANTINGS IN SOUTH DAKOTA
11/04/1987

504	506	507	509	711	505	503	001	002	502	517	699	518	532	502	553	525	527	713	
ST	MLRA	SOIL SERIES	SOIL TEXT	ADMIN AREA	NUM	COOPERATOR	ACCN	PLVT	FIELD	PLNT NO	PJRP	RC	PLTS	SUR PCT	FOL HI	FOL	JDC	ADPT	STAT
SD	102	FORDVILLE	L	1	25	A SMITH	9005997	LOSI80	SD70007		*84	50	90	.7	.5	3	5	I	
SD	102	POINSETT	SIL	1	25	L FULLER	478000	MABAM8	SD70008		*84	25	45	1.0	.5	9	5	I	
SD	055	PEEVER	CL	1	25	D ARVE	9005716	CEOC	SD73011		*84	7	86	1.2	.3	1	5	I	
SD	055	PEEVER	CL	1	25	D ARVE	9012508	PRVI	SD73012		*84	20	85	1.0	.5	1	5	I	
SD	102	FORMAN	L	1	25	J ORRIS	9006233	ULPU	SD75010		*84	53	80	2.0	1.2	3	5	I	
SD	102	ECKMAN	FSL	1	25	R HARDING	9006233	ULPU	SD75011		*84	185	63	1.6	1.2	3	5	I	
SD	102A	POINSETT-WAUBAY	SICL	1	29	R DEBERG	9006228	SYVI80	SD67009	WIND	*84	70	84	1.1	.9	3	3	I	
SD	102A	POINSETT	SIL	1	29	R BRIGGS	9006080	PRT080	SD67010	WIND	*84	25	88	.2	.1	3	9	I	
SD	102A	VIENNA	SIL	1	29	LINDER BRCS	469225	FRPE	SD67012	WIND	*84	145	2	1.7	.9	3	3	I	
SD	102A	VIENNA	SIL	1	29	L KANNAS	469226	FRPE	SD68026	WIND	*84	225	82	1.4	.3	1	3	I	
SD	102	KRANZBURG	SICL	1	29	E L LARSON	476982	CEOC	SD68027		*84	60	95	2.1	.3	3	3	I	
SD	102	KRANZBURG	SICL	1	29	E LARSON	9006228	SYVI80	SD68027	WIND	*84	100	99	1.0	1.0	3	3	I	
SD	102	FORDVILLE	SIL	1	29	R STENZEL	478000	MABAM8	SD68028	WIND	*84	25	3	.8	.5	3	7	I	
SD	102A	LAMJOURE	SICL	1	29	E OSTRANDER	469226	FRPE	SD84001	SDIN	*86	112	100	6.5	4.0	3	3	A	
SD	102A	POINSETT-3USE-F0	L	1	29	MAG	469226	FRPE	SD86004	SDIN	*86	125	98	3.0	.5	3	3	A	
SD	102A	POINSETT-WAUBAY	SICL	1	29	L MCCLUNG	469226	FRPE	SD86005	SDIN	*86	275	95	2.5	.5	7	5	A	
SD	102A	WAUBAY	SIL	1	37	F BERGH	469226	FRPE	SD86006	SDIN	*86	275	95	3.0	.5	5	5	A	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*85	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.3	7	7	I	
SD	102A	WAUBAY	SIL	1	37	F OLSON	9005909	GLTR	SD82004	WIND	*86	30	77	.4	1.				

A SUMMARY OF WOODY FIELD PLANTINGS IN SOUTH DAKOTA
11/04/1987

ST	504	506	507	503	711	505	503	001	002	502	517	699	518	532	552	553	525	527	713
ST	MLRA	SOIL	SERIES	SOIL	ADMIN	CVT	COOPERATOR	ACCN	PLNT	FIELD	NO	PJRP	RC	PLTS	SUR	FOL	WDC	ADPT	STAT
				TEXT	AREA			NUMBER	SYMB	PLNT		YR			HT	FOI			
*	SD	102	KRANZBURG	SIL	1	57	C RUDEBUSCH	9005561	AMAL2	SD71008	WLOF	*84	25	68	.2	.3	3	7	1
*	SD	102	KRANZBURG	SIL	1	57	C RUDEBUSCH	9034901	CRM02	SD71008	WLOF	*84	25	76	1.3	.3	3	7	1
*	SD	102	BROOKING	L	1	57	E ANDERSON	432347	POCAE8	SD71009	WIND	*84	25	72	.5	1.2	1	7	1
*	SD	102A	HOUEK	SIL	1	77	D CARLSON	469226	FRPE	SD71006		*84	685	98			1	1	1
*	SD		POINSETT	SIL	1	77	E KOEHLMOOS	9005888	FRPE	SD72004		*84	265						1
*	SJ		HOUEK	SIL	1	77	B LARSON	9005888	FRPE	SD72005		*84	865						1
*	SJ		HOUEK	SIL	1	77	D WENDEL	9005888	FRPE	SD72007		*84	500						1
*	SD		HOUEK	SIL	1	77	R ZELLER	9005888	FRPE	SD72008		*84	785						1
*	SD	102	POINSETT	SIL	1	77	L CROW	9005897	GLTR	SD76007	WIND	*84	24	75	2.0	1.4	1	1	1
*	SD	102	POINSETT	SIL	1	77	L CROW	9005899	GLTR	SD76007	WIND	*84	26	81	2.2	1.3	1	1	1
*	SD	102	POINSETT	SIL	1	77	L CROW	9005900	GLTR	SD76007	WIND	*84	25	80	2.2	2.5	1	1	1
*	SD	102	POINSETT	SIL	1	77	L CROW	9005901	GLTR	SD76007	WIND	*84	27	99	2.2	1.8	1	1	1
*	SD	102	POINSETT	SIL	1	77	L CROW	9005902	GLTR	SD76007	WIND	*84	25	80	2.2	1.5	1	1	1
*	SD	102	POINSETT	SIL	1	77	L CROW	9005903	GLTR	SD76007	WIND	*84	25	80	2.0	1.5	1	1	1
*	SD	102	POINSETT	SIL	1	77	L CROW	9005904	GLTR	SD76007	WIND	*84	25	44	1.8	1.5	1	1	1
*	SD	102	POINSETT	SIL	1	77	L CROW	9005905	GLTR	SD76007	WIND	*84	25	76	2.2	1.5	1	1	1
*	SD	102	POINSETT	SIL	1	77	L CROW	9005908	GLTR	SD76007	WIND	*84	26	80	2.5	1.9	1	1	1
*	SD	102	POINSETT	SIL	1	77	L CROW	9006058	PRAM	SD67008	WLOF	*84	100	90	.8	.5	1	3	1
*	SD	102B	CROSSPLAIN	CL	1	87	H LIETHEISER	483445	RHTR	SD67008	WLOF	*84	50	90	.8	.5	1	3	1
*	SD	102B	CROSSPLAIN	CL	1	87	H LIETHEISER	478008	SYRE80	SD76009	WIND	*84	25	75	1.0	.3	9	5	1
*	SD	102	CLARVO	L	1	91	C BIEN	469226	FRPE	SD67002	WIND	*84	100	85	1.8	.7	9	3	1
*	SD	102A	FORMAN	SIL	1	91	C BIEN	469226	FRPE	SD67002	WIND	*84	100	18	1.5	.5	9	3	1
*	SD	055	KRANZBURG	SIL	1	91	H FRANZEN	477999	LOSI80	SD69001	WIND	*84	200	50	.5	.5	9	3	1
*	SD	102A	SINAI	SIC	1	91	C KEINTZ	9010397	BRH02	SD70001	WIND	*84	200	73	.6	.5	3	5	1
*	SD	102A	SINAI	SIC	1	91	C KEINTZ	9015898	CRAR	SD70001	WIND	*84	46	85	1.2	.7	3	3	1
*	SJ	102A	SINAI	SIC	1	91	C KEINTZ	9011852	LONIC	SD70001	WIND	*84	100	99	.7	.7	1	1	1
*	SD	102A	SINAI	SIC	1	91	C KEINTZ	477999	LOSI80	SD70001	WIND	*84	100	99	.7	.7	1	1	1
*	SD	055	CLARNO-BONVILLA	L	1	97	R SHERMAN	9006073	PRPA5	SD70009		*84	100	59	1.8	1.5	1	3	1
*	SD	055	CLARNO-BONVILLA	L	1	97	R SHERMAN	9006078	PRSP	SD70009	WIND	*84	102	85	.8	.5	1	3	1
*	SD	055	CLARVO-BONVILLA	L	1	97	R SHERMAN	9012508	PRVI	SD70009		*84	100	86	1.6	1.2	1	3	1
*	SJ	102B	VORA-CROFTON	SIL	1	99	F ASSAM	478000	MABAM8	SD69015	WLOF	*84	75	45	1.2	.3	3	7	1
*	SJ	102B	VORA-CROFTON	SIL	1	99	F ASSAM	9006057	PRAM	SD69015	WLOF	*84	50	80	.8	.5	9	3	1
*	SD	102B	VORA-CROFTON	SIL	1	99	F ASSAM	9006080	PRTO80	SD69015	WLOF	*84	100	40	.4	.3	9	5	1
*	SD	102A	ECKMAN	SIL	1	109	G PIRMANITGEN	9006228	SYVI80	SD65005	WIND	*84	78	99	.9	.3	3	1	1
*	SD	102A	LADELLE	SIL	1	109	W ZEIMER	9005714	CEOC	SD65007	WIND	*84	50	80	3.5	1.5	3	3	1
*	SD	056	SVERDRUP	SL	1	109	WHITE ROCK HUTTERIAN	9005714	CEOC	SD65008	WIND	*84	96	90	3.5	1.5	3	3	1

A SUMMARY OF WOODY FIELD PLANTINGS IN SOUTH DAKOTA
11/04/1987

* 504	506	507	509	711	505	503	001	002	502	517	699	518	532	552	553	525	527	715	
ST	MLRA	SOIL SERIES	SOIL TEXT	ADMIN AREA	NUM	CNT	ACCN	PLNT SYMB	PLNT	PLNT NO	PJRP	RC	PLTS	SUR PCT	FOL HT	FOL WID	WDC	ADPT STAT	
SD	056	SVERDRUP	SL	1	109	WHITE ROCK	HJTTERRIAN	9034901	CR402	SD65008	WIND	*84	81	20	1.8	1.2	3	3	1
SD	056	SVERDRUP	SL	1	109	WHITE ROCK	HJTTERRIAN	478000	MABAM8	SD65008	WIND	*84	107	90	2.5	1.5	1	3	1
SD	056	SVERDRUP	SL	1	109	WHITE ROCK	HJTTERRIAN	9006080	PRT080	SD65008	WIND	*84	87	95	.6	.3	1	3	1
SD	102A	PEEVER	CL	1	109	G OLSON		9005714	CEOC	SD65009	WIND	*84	182	80	1.0	.3	3	3	1
SD	102A	PEEVER	CL	1	109	G OLSON		9006226	SYCH90	SD65009	WIND	*84	18	80	.3	.4	3	3	1
SD	102A	HEIMDAL	L	1	109	B BOHN		9006228	SYVI80	SD65010	WIND	*84	57	20	.5	.4	9	7	1
SD	102A	FORMAN-AJSTAD	L	1	109	B ELLINGSON		478000	MABAM8	SD65011	WIND	*84	95	90	.9	.3	3	3	1
SD	102A	PEEVER	CL	1	109	L TWITERO		476982	CEOC	SD68015	WIND	*84	190	2	1.3	.5	9	3	1
SD	102	FORMAN-AJSTAD	L	1	109	L BAKKE		478003	PRFR2	SD68018	WIND	*84	190	90	.2	.1	9	3	1
SD	102	FORMAN-AJSTAD	L	1	109	O DAHL		478003	PRFR2	SD68019	WIND	*84	83	20	.3	.2	9	3	1
SD	102	FORMAN-AJSTAD	L	1	109	O DAHL		478005	SHAR	SD68019	WIND	*84	60	60	1.2	1.0	9	3	1
SD	102	POINSETT-SISSETO	SIL	1	109	C WEEKS		9006080	PRT080	SD68020	WIND	*84	66	50	.5	.4	3	5	1
SD	102	POINSETT-SISSETO	SIL	1	109	C WEEKS		478005	SHAR	SD68020	WIND	*84	105	70	1.1	1.1	3	3	1
SD	102	FORMAN-AJSTAD	L	1	109	WHITE ROCK	HJTTERRIAN	9006080	PRT080	SD68022	WIND	*84	150	90	.6	.3	3	3	1
SD	102	HEIMDAL-SISSETON	L	1	109	M MUELLER		477999	LOSI80	SD69017	WIND	*84	225	90	1.5	1.0	9	3	1
SD	056	ECKMAN	L	1	109	K KIEFFER		477999	LOSI80	SD69018	WIND	*84	125	95	1.2	.5	1	3	1
SD	102	FORMAN-AJSTAD	L	1	109	V BRAUN		9005727	COAC80	SD70017	WIND	*84	95	80	1.2	1.0	9	5	1
SD	102	FORMAN-AJSTAD	L	1	109	M KOEPPE		9005727	COAC80	SD70018	WIND	*84	200	1	1.5	1.5	1	1	1
SD	102	SVERSDRUP	SL	1	109	L NELSON		476982	CEOC	SD70020	WIND	*84	177	70	1.2	1.2	3	3	1
SD	102	SVERSDRUP	SL	1	109	L NELSON		9005715	CEOC	SD70020	WIND	*84	65	80	1.5	1.2	3	3	1
SD	102	POINSETT	SIL	1	109	P OSTBY		9006073	PRPA5	SD70021	WIND	*84	51	80	1.0	.8	3	3	1
SD	102	POINSETT	SIL	1	109	P OSTBY		9006080	PRT080	SD70021	WIND	*84	99	90	.6	.5	3	3	1
SD	102	POINSETT	SIL	1	109	O SIMONSON		9015898	CRAR	SD70022	WIND	*84	54	80	.7	.7	3	3	1
SD	102	POINSETT	SIL	1	109	O SIMONSON		9034901	CR402	SD70022	WIND	*84	42	90	.5	.5	3	3	1
SD	102	POINSETT-SISSETON	SIL	1	109	G WEBSTER		9006080	PRT080	SD70023	WIND	*84	54	60	.5	.5	9	5	1
SD	55B	ABERDEEN	SICL	1	115	S WAGNER		9011950	GLSI80	SD85021	WIND	*85	331	95	1.7	1.0	7	3	A
SD	55B	ABERDEEN	SICL	1	115	S WAGNER		9011950	GLSI80	SD85021	WIND	*86	331	74	.6	.5	3	5	I
SD	102B	CLARVO	L	1	125	E JAVIZEN		9006058	PRAM	SD68013	BEAN	*84	5	75	2.5	2.0	3	3	I
SD	102B	EGAN	SICL	1	125	L JOHNSON		476982	CEOC	SD70012	WIND	*84	150	90	.7	.5	3	5	I
SD	102B	CLARNO	L	1	125	V STAEBELL		9011852	LONIC	SD70013	WIND	*84	150	1	.7	.5	3	5	I
SD	102B	VIENNA	SIL	1	125	M BAKKE		9011852	LONIC	SD70014	WIND	*84	50	1	.5	.5	3	7	1
SD	055			2	3	A. MATZNER		476982	CEOC	SD73035	WNR	*81	25	96	1.2	.7	3	1	I
SD	055			2	3	A. MATZNER		476982	CEOC	SD73035	WNR	*85	25	92	1.4	11.5	7	3	I
SD	055			2	3	A. MATZNER		476982	CEOC	SD73035	WNR	*85	25	92	1.4	11.5	7	3	I
SD	055	HECLA	FSL	2	5	M PHILLIPS		469226	FRPE	SD67016	WIND	*84	150	80	2.5	1.7	3	1	I
SD	055	HOUEK-BONVILLA	SL	2	5	D LOOS		478000	MABAM8	SD69021	WLOF	*84	25	83	1.2	1.2	1	1	I

A SUMMARY OF WOODY FIELD PLANTINGS IN SOUTH DAKOTA
11/09/1987

ST	504	506	507	MLRA	SOIL SERIES	509	711	505	503	001	002	502	517	699	518	532	552	553	525	627	713
						SOIL	ADMIN	CNT		ACCN	PLNT	FIELD	PLNT NO	PJRP	RC	PLTS	SUR	FOL	WID	ADPT	STAT
						TEXT	AREA	NUM	COOPERATOR	NUMBER	SYMB						PCT	HT			
*	SD	055	HOUEK-30NVILLA			SL		2	5 D LOOS	9006078	PRSP	SD69021	WLDF	*84	15	35	.6	.5	1	2	1
*	SD	055	HOUEK-PROSPER			L		2	5 G KJIPER	9034901	CRM02	SD71021	WIND	*84	50	60	.5	.4	3	7	1
*	SD	055	HOUEK-PROSPER			L		2	5 D LOOS	9005971	JUNI	SD71022	WLDF	*84	14	80	1.0	.3	3	1	1
*	SD	055	HOUEK-PROSPER			L		2	5 D LOOS	9019977	JUNI	SD71022	WLDF	*84	20	99	1.6	1.2	3	1	1
*	SD	055C	BEADLE			L		2	5 C FLOWERS	9011850	GLSI80	SD85027	WIND	*85	75	85			5		A
*	SD	055C	BEADLE			L		2	5 C FLOWERS	9011850	GLSI80	SD85027	WIND	*86	75	73	3.8	.3		3	A
*	SD	055C	HIGHMORE-EAKIN			SIL		2	23 P STECKLY	9006057	PRAM	SD67017	WIND	*84		99	.6	1.4	1	3	I
*	SD	055C	EAKIN-ETHAN COMP			SIL		2	23 S CAHOY	469226	FRPE	SD67018	WIND	*84		99	2.5	1.2	9	1	I
*	SD	055C	EAKIN-ETHAN COMP			SIL		2	23 G CAHOY	9006228	SYVI80	SD67018	WIND	*84		95	1.0	.3	9	1	I
*	SD	055C	AGAR EAKIN-ETHAN			SIL		2	23 P OLSON & SON	469226	FRPE	SD69022	WLDF	*84		80	2.0	1.4	3	3	I
*	SD		TRENT			SICL		2	27 L LEWISON	478000	MABAM8	SD65014		*85		12	1.0	.3	7	9	I
*	SJ		TRENT-WOODY			SIL		2	27 R SCHULZ	9005713	CEOC	SD65015		*85		92	2.8	1.7	5	1	I
*	SD	102	TRENT-WOODY			SICL		2	27 T MAHOOD	9005971	JUNI	SD76016		*85		50	1.0	.3	7	7	I
*	SD	102	TRENT			SICL		2	27 S STERNQUIST	9005913	GYDI	SD76017	WIND	*85		76	1.3	1.0	5	5	I
*	SD	102	TRENT			SICL		2	27 S STERNQUIST	9005914	GYDI	SD76017	WIND	*85		46	1.2	.3	5	5	I
*	SD	102	TRENT			SICL		2	27 S STERNQUIST	9005916	GYDI	SD76017	WIND	*85		94	1.5	1.1	5	3	I
*	SD	055	HOUEK-PROSPER			L		2	35 DAVISON CO 4-H GRNDS	476982	CEOC	SD71027		*85		90	12.9	10.5	5	3	I
*	SD	055	HOUEK-PROSPER			L		2	35 DAVISON CO 4-H GRNDS	9015898	CRAR	SD71027		*85		50	14.4	11.5	5	7	I
*	SD	055	HOUEK-PROSPER			L		2	35 DAVISON CO 4-H GRNDS	469226	FRPE	SD71027		*85		100	16.5	8.2	5	1	I
*	SD	055	HOUEK-PROSPER			L		2	35 DAVISON CO 4-H GRNDS	9006084	PRVI	SD71027		*85		85	12.5	7.2	5	3	I
*	SD	055	HOUEK-PROSPER			L		2	35 DAVISON CO 4-H GRNDS	9012508	PRVI	SD71027		*85		95	11.4	3.3	7	5	I
*	SD							2	35 A MATZNER	476982	CEOC	SD73035		*85		92	1.4	11.5	7	3	I
*	SD							2	35 A MATZNER	9005713	CEOC	SD73035		*85		96	1.7	1.4	7	5	I
*	SD							2	35 A MATZNER	478000	MABAM8	SD73035		*85		100	1.2	1.3	7	3	I
*	SD	053				SICL		2	53 E DREY	9005552	ACSA2	SD71018		*85		90	25.5	20.1	3	5	I
*	SD	055	HOUEK-30NVILLA					2	59 W HERMAN	9006055	PRAM	SD66005		*85		51	1.1	.3	5	3	I
*	SD	055	HOUEK-30NVILLA					2	59 W HERMAN	9006064	PRAR3	SD66005		*85		8	1.8	1.5	1	3	I
*	SD	055	HOUEK-30NVILLA					2	59 W HERMAN	9006065	PRAR3	SD66005		*85		40	1.2	1.2	1	3	I
*	SD	055	HOUEK-30NVILLA					2	59 W HERMAN	9006066	PRAR3	SD66005		*85		60	2.0	2.1	1	3	I
*	SD	055	HOUEK-30NVILLA					2	59 W HERMAN	9006067	PRAR3	SD66005		*85		20	1.0	.3	1	7	I
*	SD	055	HOUEK-30NVILLA					2	59 W HERMAN	9006068	PRAR3	SD66005		*85		40	1.2	.5	1	5	I
*	SD	055	HOUEK-30NVILLA					2	59 W HERMAN	9005967	JUCA80	SD67024		*85		50	1.0	.3	1	7	I
*	SD	055	HOUEK-30NVILLA					2	59 W HERMAN	9005968	JUCI	SD67024		*85		50	.4	.3	1	9	I
*	SD	055	HOUEK-30NVILLA					2	59 W HERMAN	9005969	JUMA80	SD67024		*85		60	.9	.3	1	7	I
*	SD	055	HOUEK-30NVILLA					2	59 W HERMAN	9019977	JUVI	SD67024		*85		50	1.9	1.2	1	5	I
*	SD	055	HOUEK-30NVILLA					2	59 W HERMAN	478000	MABAM8	SD67024		*85		16	.4	1.3	5	7	I

A SUMMARY OF WOODY FIELD PLANTINGS IN SOUTH DAKOTA
11/04/1987

ST	MLRA	SOIL SERIES	504	506	507	SOIL	ADMIN	509	503	001	002	002	PLNT	SYMB	PLNT	NO	PJRP	517	699	518	532	552	553	525	627	713	
		TEXT	AREA	NJM	COOPERATOR					ACCN	PLNT	SYMB	PLNT	SYMB	PLNT	NO	PJRP	YR	RC	PLTS	SUR	FOL	FO-	WID	JDC	ADPT	STAT
*	SD	055	FOUNDER-30VILLA	2	59	W HERMAN				9006073	PRPA5	SD67024	SD85003	IRRG	*85						20	1.5	1.5		1	7	I
*	SD			2	59	SDSJ (DRY SITE)				477992	ACGI	SD85003	IRRG	*85							10	100					A
*	SD			2	59	SDSJ (DRY SITE)				476982	CEOC	SD85003	IRRG	*85							20	10					A
*	SD			2	59	SDSJ (DRY SITE)				9005729	COIN80	SD85003	IRRG	*85							10	100					A
*	SD			2	59	SDSJ (DRY SITE)				9005731	CRAR	SD85003	IRRG	*85							10	100					A
*	SD			2	59	SDSJ (DRY SITE)				9011850	GLSI80	SD85003	IRRG	*85							10	80					A
*	SD			2	59	SDSJ (DRY SITE)				478003	PRFR2	SD85003	IRRG	*85							10	40					A
*	SD	053C	GLENHAM	2	59	T SPILDE				477992	ACGI	SD85004	WIND	*85							50	88	1.3	.9	1	5	A
*	SD	053C	GLENHAM	2	59	T SPILDE				477992	ACGI	SD85004	WIND	*86							50	82	2.3	2.2	3	3	A
*	SD	053C	GLENHAM	2	59	T SPILDE				476982	CEOC	SD85004	WIND	*85							75	1	.0	.0	1	9	A
*	SD	053C	GLENHAM	2	59	T SPILDE				476982	CEOC	SD85004	WIND	*86							75	50	1.7	1.5	3	5	A
*	SD	053C	GLENHAM	2	59	T SPILDE				9011850	GLSI80	SD85004	WIND	*85							100	30	1.4	.5	1	5	A
*	SU	053C	GLENHAM	2	59	T SPILDE				9011850	GLSI80	SD85004	WIND	*86							100	0			3	9	A
*	SD			2	59	SDSJ (IRRG SITE)				477992	ACGI	SD85028	IRRG	*85							10	100					A
*	SD			2	59	SDSJ (IRRG SITE)				476982	CEOC	SD85028	IRRG	*85							20	30					A
*	SD			2	59	SDSJ (IRRG SITE)				9005729	COIN80	SD85028	IRRG	*85							10	90					A
*	SD			2	59	SDSJ (IRRG SITE)				9005731	CRAR	SD85028	IRRG	*85							10	100					A
*	SD			2	59	SDSJ (IRRG SITE)				9011850	GLSI80	SD85028	IRRG	*85							10	100					A
*	SD			2	59	SDSJ (IRRG SITE)				478003	PRFR2	SD85028	IRRG	*85							10	50					A
*	SD	055C	ELSMORE	2	111	K MDE				432347	POCAE8	SD81003	WIND	*85							100	13.5	9.7		1	3	I
*	SD	055C	ELSMORE	2	111	K MDE				9016288	PODE3	SD81003	WIND	*85							96	19.5	.9		1	1	I
*	SD	055C	ELSMORE	2	111	K MDE				9019502	POPUL	SD81003	WIND	*85							73	1.3	9.3		1	3	I
*	SD	055C	ELSMORE	2	111	K MDE				9019503	POPUL	SD81003	WIND	*85							93	1.0	.7		1	3	I
*	SD	053B	LINTON	3	21	J WIENTJES				4692226	FRPE	SD86011	WIND	*86							100	95	1.7	.5	3		A
*	SD	054	REEDER	3	31	S JACOBS				477992	ACGI	SD85018	WIND	*85							10	80			7		A
*	SD	054	REEDER	3	31	S JACOBS				476982	CEOC	SD85018	WIND	*85							10	100			7		A
*	SD	054	REEDER	3	31	S JACOBS				9011850	GLSI80	SD85018	WIND	*85							10	90			7		A
*	SD	054	TREMBLES	3	31	J KERSTEIN				477992	ACGI	SD85019	WIND	*85							10	0			5		A
*	SD	054	TREMBLES	3	31	J KERSTEIN				476982	CEOC	SD85019	WIND	*85							10	60			3		A
*	SD	054	TREMBLES	3	31	J KERSTEIN				9011850	GLSI80	SD85019	WIND	*85							10	90			5		A
*	SD	054	SHAMBO	3	31	J PETIK				477992	ACGI	SD85020	WIND	*85							10	40			9		A
*	SU	054	SHAMBO	3	31	J PETIK				476982	CEOC	SD85020	WIND	*85							10	100			7		A
*	SD	054	SHAMBO	3	31	J PETIK				9011850	GLSI80	SD85020	WIND	*85							10	100			7		A
*	SD	053B	WILLIAMS	3	45	M KUKRALL				9006228	SYVI80	SD66006	WIND	*84							137	64	.6	.4	3		I
*	SD	053A	OPAL	3	75	L ROGHAIK				478004	PYUS80	SD82007	WIND	*85							90		.3	.2	9		A
*	SD	053B	BOWDLE	3	89	E HAUP				4692226	FRPE	SD65018		*84							25	45	2.0	1.5	9		I

A SUMMARY OF WOODY FIELD PLANTINGS IN SOUTH DAKOTA
11/04/1987

504	505	507	509	711	505	503	001	002	502	517	699	518	532	552	553	525	627	713						
ST	MLRA	SOIL	SERIES	TEXT	AREA	NUM	COOPERATOR	ACCN	PLNT	SYMB	PLNT	NO	PJRP	YR	RC	PLTS	SUR	PCT	FOL	WID	ADC	ADPT	STAT	
SD	053B	VIDA	WILLIAMS	80	L	3	89	L	VILHAUER	9011850	GLSI80	SD85016	WIND	*85	75	85								A
SD	053B	VIDA	WILLIAMS	80	L	3	89	L	VILHAUER	9011850	GLSI80	SD85016	WIND	*86	75	27			2.5	1.5			7	A
SD	053B	VIDA	WILLIAMS	80	L	3	89	M	TRAXINGER	9011850	GLSI80	SD85017	WIND	*85	45	98							1	A
SD	053B	VIDA	WILLIAMS	80	L	3	89	M	TRAXINGER	9011850	GLSI80	SD85017	WIND	*86	45	58			2.0	1.0			5	A
SD						3	119	SULLY	CO SCD	469225	FRPE	SD83012	SDIN	*85		90			.3	.2			5	A
SD						3	119	SULLY	CO SCD	469226	FRPE	SD83012	SDIN	*86		95			2.8	1.5			3	A
SD	054	ANSELMO		FSL		3	121	C	ANDERSON	477998	LOMA6	SD68031		*83	14	39			.5	.3			1	I
SD	053C	HIGHMORE-EAKIN		SIL		3	129	L	SCHANZENBACH	459226	FRPE	SD86012	WIND	*86	150	100			1.8	.5			9	A
SD	064	ELSMERE		LFS		4	7	J	LIVERMONT	476982	CEOC	SD85010	WIND	*86		0							1	A
SD	064	TUTHILL		FSL		4	7	P	FANNING	477992	ACGI	SD85014	WIND	*86		8			1.5	.3			7	A
SD	060A	SAVO		SICL		4	19	FENTON FARMS	9011850	GLSI80	SD85013	WIND	*86	50	10			2.0	1.5			5	A	
SD	063A					4	103	USDA-FOREST SERVICE	476982	CEOC	SD85011	WIND	*85	50	0								3	A
SD	063A					4	103	USDA-FOREST SERVICE	476982	CEOC	SD85011	WIND	*86	50	90			1.0	.4			3	A	
SD						4	105	K KVANVIG	477992	ACGI	SD85012	WIND	*86	50	68			2.0	2.0			3	A	
SD						4	105	K KVANVIG	476982	CEOC	SD85012	WIND	*86	50	20			2.0	1.0			3	A	
SD						4	105	K KVANVIG	476982	CEOC	SD85012	WIND	*86	100	78			2.5	1.0			3	A	
SD	102	ESTELLIVE		SIL		7	11	L. CROSSER	9011850	GLSI80	SD73004	WNR	*81	25				1.3	1.0			3	I	
SD	055					7	13	E. BOKELHEID	476982	CEOC	SD68001	WNR	*81	40	95			1.5	.3			3	I	
SD	055	HECLA		SL		13	115	E. WEISMAN	476982	CEOC	SD73016	WNR	*81	175	97			1.3	1.0			3	I	
SD	102	FORMAN-AUSTAD				18	109	WHITE ROCK HITTERIAN	476982	CEOC	SD68022	WNR	*81	110	91			2.6	2.2			1	I	
SD	102	FORMAN-AUSTAD				18	109	WHITE ROCK HITTERIAN	476982	CEOC	SD68022	WNR	*84	110	95			3.5	1.5			3	I	
SD	102					18	109	L. NELSON	476982	CEOC	SD70020	WNR	*81	177	94			1.3	1.0			3	I	
SD	102	KRANZBURG		SICL		20	29	E. LARSON	476982	CEOC	SD68027	WNR	*81	60	97			1.9	1.2			3	I	
SD	055	FORMAN		L		24	25	D. ARNE	476982	CEOC	SD73011	WNR	*81	25	88			1.8	1.5			1	I	
SD	055	FORMAN		L		24	25	D. ARNE	476982	CEOC	SD73011	WNR	*84	25	80			1.2	.3			1	I	
SD	055	SINAI		SIC		27	91	C. KEINTZ	476982	CEOC	SD70001	WNR	*81	73				1.2	.5			9	I	
SD	055	SINAI		SIC		27	91	C. KEINTZ	476982	CEOC	SD70001	WNR	*84	73	99			1.2	.3			3	I	
SD	055	FORMAN		L		27	91	E. BREMMON	476982	CEOC	SD74001	WNR	*81	147	93			1.1	.3			3	I	

A SUMMARY OF NO-283 (955679) RUSSIAN ALMOND FIELD PLANTINGS IN SOUTH DAKOTA
11/16/1987

504	506	507	503	711	505	503	001	502	517	699	518	532	552	553	525	527	713
ST	MLRA	SOIL	SERIES	SOIL	ADM	CNT	ACCN	FIELD	YR	RC	NUM	SUR	FOL	FOL	WDC	ADPT	STAT
				TEXT	AREA	NUM	NUMBER	PLNT	NO	PJRP	PLTS	PCT	HT	WID			
SD	053B	WILLIAM		L		1	9006079	SD58001	WIND	*84	83	90	.5	.8	3	3	I
SD	102	KRANZBURG		SIL		1	9006079	SD58005		*84	7	40	.2	.2	1	7	I

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP (Purpose)
- 599 YR RC (Year of record)
- 518 NUM PLTS (Number of plants)
- 532 SUR PCT (Percent survival)
- 552 FOL HT (Height at end of season)
- 553 FOL WID (Crown width at end of season)
- 525 WDC (Weed competition)
- 627 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

A SUMMARY OF CARDAN GREEN ASH FIELD PLANTINGS IN SOUTH DAKOTA
11/09/1987

ST	MLRA	SOIL SERIES	500 SOIL ADM	711 CMT	505 CMT	503	001 ACCN	502 FIELD	517 PURP	699 YR	518 VUM	532 SUR	552 FOL	553 FOL	525 WDC	527 ADPT	713 STAT
		TEXT AREA	NUM	COOPERATOR			NUMBER	PLNT NO		RC	PLTS	PCT	HT	WID			
SD	102A	FORMAN	1	25 J FOILES			469226	S067004		*84	75	90	2.8	1.4	1	5	I
SD	102A	FORDVILLE	1	29 E OSTRANDER			469226	S084001	SDIN								A
SD	102A	LAMBOURE	1	29 M MAAG			469226	S086004	SDIN	*86	112	98	3.0	.5	3		A
SD	102A	POINSETT-WAUBAY	1	29 L BERGH			469226	S086005	SDIN	*86	275	95	3.0	.5	5		A
SD	102A	POINSETT-BUSE-FO	1	29 L MCCLUNG			469226	S086005	SDIN	*86	125	95	2.5	.5	7		A
SD	102A	FORDVILLE	1	29 E OSTRANDER			469226	S084001	SDIN	*86		100	6.5	4.0	3		A
SD	102A	VIENNA	1	29 LINDER BROS			469226	S067012	WIND	*84	145	2	1.7	.9	3		I
SD	102A	VIENNA	1	29 L KAVNAS			469226	S058026	WIND	*84	225	82	1.4	.9	1		I
SD		FORMAN	1	39 A JAEGER			469226	S083001	SDIN	*85		54	3.2	.2	5		A
SD		FORMAN	1	39 A JAEGER			469226	S083001	SDIN	*86		54	4.5	.4	5		A
SD	102	FARGO	1	51 O PAULI			469226	S068010	SDIN	*84	46	95	2.0	1.5	1		I
SD	102A	HOUEK	1	77 O CARLSON			469226	S071006		*84	685	98			1		I
SD	102A	FORMAN	1	91 C BIEN			469226	S067002	WIND	*84	100	85	1.8	.7	9		I
SD	102A	FORMAN	1	91 C BIEN			469226	S067002	WIND	*84	100	18	1.5	.6	9		I
SD	055	HECLA	2	3 M PHILLIPS			469226	S057016	WIND	*84	150	80	2.5	1.7	3		I
SD	055C	EAKIN-ETHAN COMP	2	23 G CAHOY			469226	S067018	WIND	*84		99	2.5	1.2	9		I
SD	055C	AGAR EAKIN-ETHAN	2	23 P OLSON & SOV			469226	S069022	WLDF	*84		80	2.0	1.4	3		I
SD	055	HOUEK-PROSPER	2	35 DAVISON CO 4-H GRNDS			469226	S071027									I
SD	055	HOUEK-PROSPER	2	35 DAVISON CO 4-H GRNDS			469226	S071027									I
SD	053B	LINTON	3	21 J WIENTJES			469226	S086011	WIND	*86	100	95	1.7	.5	3		A
SD	053B	BOWDLE	3	89 E HAUP			469226	S065018		*84	25	45	2.0	1.5	9		I
SD			3	113 SULLY CO SCD			469226	S083012	SDIN	*85		90	.3	.2	1		A
SD			3	119 SULLY CO SCD			469226	S083012	SDIN	*86		95	2.8	1.5	3		A
SD	053C	HIGHMORE-EAKIN	3	123 L SCHANZENBACH			469226	S086012	WIND	*86	150	100	1.8	.5	1		A

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP (Purpose)
- 599 YR RC (Year of record)
- 518 NUM PLTS (Number of plants)
- 532 SUR PCT (Percent survival)
- 552 FOL HT (Height at end of season)
- 553 FOL WID (Crown width at end of season)
- 525 WDC (Weed competition)
- 627 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

A SUMMARY OF DAHE HACKBERRY FIELD PLANTINGS IN SOUTH DAKOTA
11/09/1987

504	506	507	509	711	505	503	001	502	517	699	518	532	552	553	525	527	713
ST	MLRA	SOIL SERIES	SOIL	AD4	CNT	TEXT AREA NUM COOPERATOR	ACCN	FIELD	PURP	RC	NUM	PCT	FOL	FOL	WDC	ADPT	STAT
							NUMBER	PLNT NO			PLTS		HT	WID			
SD 055	FORMAN	L	24	25	D.	ARNE	476982	SD73011	WNBR	*84	25	80	1.2	.8	1	5	1
SD 055	SIVAI	SIC	27	91	C.	KEINTZ	476982	SD70001	WNBR	*81	73		1.2	.5	9	1	1
SD 055	SIVAI	SIC	27	91	C.	KEINTZ	476982	SD70001	WNBR	*84	73	99	1.7	.9	3	3	1
SD 055	FORMAN	L	27	91	E.	3REMMON	476982	SD74001	WNBR	*81	147	93	1.1	.8	3		1

ATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

A SUMMARY OF NO-20 (2005731) ARNOLD HATHORN (CRATAEGUS ARNOLDIANA) FIELD PLANTINGS
11/09/1987

504	506	507	509	711	505	503	501	502	517	699	518	532	552	553	525	627	713
ST	MLRA	SOIL	SERIES	SOIL	ADM	CVI	ACCN	FIELD	PURP	YR	NUM	SUR	FOL	FOL	WDC	ADPT	STAT
				TEXT	AREA	NUM	NUMBER	PLNT	NO	RC	PLTS	PCT	HT	WID			
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*60	4	4					
**	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*61	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*62	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*63	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*64	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*65	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*66	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*67	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*68	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*69	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*70	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*71	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*72	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*73	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*74	4	4					
*	MT			9	PMC	BRIDGER,MT	9005731	MT50001		*75	4	4					
*	MT			25	CRETSINGER,BAKER,MT		9005731	MT72155	WIND	*72	15						
*	MT			25	CRETSINGER,BAKER,MT		9005731	MT72155	WIND	*74	15						
*	MT			25	CRETSINGER,BAKER,MT		9005731	MT72155	WIND	*75	15	8					
*	MT			25	CRETSINGER,BAKER,MT		9005731	MT72155	WIND	*80	15	13					
*	MT			29	PENVEY,KALISPELL,MT		9005731	MT73130		*74	30	30					
*	MT			29	PENVEY,KALISPELL,MT		9005731	MT73130		*75	30	30					
*	MT			29	PENVEY,KALISPELL,MT		9005731	MT74110		*74	5	5					
*	MT			29	PENVEY,KALISPELL,MT		9005731	MT74110		*75	5	5					
*	MT			79	J.GALLAND,TERRY,MT		9005731	MT73120	WIND	*73	5	5					
*	MT			79	J.GALLAND,TERRY,MT		9005731	MT73120	WIND	*74	5	5					
*	MT			79	J.GALLAND,TERRY,MT		9005731	MT73120	WIND	*75	5	5					
*	MT			79	J.GALLAND,TERRY,MT		9005731	MT73120	WIND	*76	5	5					
*	MT			79	J.GALLAND,TERRY,MT		9005731	MT73120	WIND	*77	5	5					
*	MT			79	J.GALLAND,TERRY,MT		9005731	MT73120	WIND	*78	5	5					
*	MT			79	J.GALLAND,TERRY,MT		9005731	MT73120	WIND	*79	5	5					
*	MT			87			9005731	MT74102									
*	MT			87			9005731	MT74102			10						
*	MT			87	WSTRV ENRGY,FRSTH,MT		9005731	MT74102	CASM								
*	MT			89	VAR CPRTS,PLNS,MT		9005731	MT73124		*80							
*	SD	102	KRANZBURG	SIL	1	11	L BECKMAN	SD71003	WLDF	*84	20	99	1.5	.6	1	1	1

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP (Purpose)
- 599 YR RC (Year of record)
- 518 NUM PLTS (Number of plants)
- 532 SUR PCT (Percent survival)
- 552 FOL HT (Height at end of season)
- 553 FOL WID (Crown width at end of season)
- 525 WDC (Weed competition)
- 627 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

A SUMMARY OF ND-20 (9005731) ARNOLD HAWTHORN (CRATAEGUS ARNOLDIANA) FIELD PLANTINGS
11/09/1987

504	506	507	509	711	505	503	001	502	517	699	518	532	552	553	525	527	713
ST	MLRA	SOIL SERIES	SOIL	ADM	CNT		ACCN	FIELD	PURP	RC	PLTS	SUR	FOL	FOL	WDC	ADPT	STAT
		TEXT AREA	NUM	COOPERATOR			NUMBER	PLNT	NO			PCT	HT	WID			
SD			2	59	SJSJ (DRY SITE)		9005731	SD85003	IRRG	*85	10	100					A
SD			2	59	SJSJ (IRRG SITE)		9005731	SD85028	IRRG	*85	10	100					A
WY			5	WYODAK	GILLETTE	WY	9005731	WY74104		*74	10	5					
WY			5	WYODAK	GILLETTE	WY	9005731	WY74104		*80	10	0					
WY			13	SAND MESA	RVRTN	WY	9005731	WY79052		*80		8					
WY			33	BOY SCTS	SHERIDAN	WY	9005731	WY74105			20						

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

A SUMMARY OF (V)-1877 (9011850) HONEYLOCUST IN SOUTH DAKOTA
11/12/1987

ST	504	506	507	509	711	505	503	001	502	517	699	518	532	552	553	525	527	713
		MLRA	SOIL SERIES	SOIL ADM	TEXT AREA	NUM	COOPERATOR	ACCN	FIELD	PLNT NO	YR RC	PLTS	SUR PCT	FOL HI	FOL WID	WDC	ADPT	STAT
SD	102A	POINSETT	SIL	1	11	A	OLSON	9011850	SD85009	SDIN	*85	74	86			3		A
SD	102A	VIENNA	L	1	11	M	SELKEN	9011850	SD85008	SDIN	*85	36	97			1		A
SD	102A	POINSETT	SIL	1	11	A	OLSON	9011850	SD85009	SDIN	*85	74	70	2.0	.5	5	3	A
SD	102A	VIENNA	L	1	11	M	SELKEN	9011850	SD85008	SDIN	*87	36	81	2.5	.9	3	3	A
SD	55B	ABERDEEN	SICL	1	115	S	WAGNER	9011850	SD85021	WIND	*85	331	95			3		A
SD	55B	ABERDEEN	SICL	1	115	S	WAGNER	9011850	SD85021	WIND	*85	331	74	1.7	1.0	7	3	A
SD	55C	BEADLE	L	2	5	C	FLOWERS	9011850	SD85027	WIND	*85	75	85			5		A
SD	55C	BEADLE	L	2	5	C	FLOWERS	9011850	SD85027	WIND	*86	75	73	3.8	.8		3	A
SD				2	59	SDSJ (DRY SITE)		9011850	SD85003	IRRG	*85	10	80					A
SD				2	59	SDSJ (IRRG SITE)		9011850	SD85028	IRRG	*85	10	100					A
SD	53C	GLENHAM	L	2	59	T	SPILDE	9011850	SD85004	WIND	*85	100	90	1.4	.6	1	5	A
SD	53C	GLENHAM	L	2	69	T	SPILDE	9011850	SD85004	WIND	*86	100	0			3	3	A
SD	54	TREMABLES	FSL	3	31	J	KERSTEIN	9011850	SD85019	WIND	*85	10	90			5		A
SD	54	SHAMBO	L	3	31	J	PETIK	9011850	SD85020	WIND	*85	10	100			7		A
SD	54	REEDER	L	3	31	S	JACOBS	9011850	SD85018	WIND	*85	10	90			7		A
SD	53B	VIDA WILLIAMS 30	L	3	89	L	VILHAUER	9011850	SD85016	WIND	*85	75	85			3		A
SD	533	VIDA WILLIAMS 30	L	3	89	M	TRAXINGER	9011850	SD85017	WIND	*85	45	98			1		A
SD	533	VIDA WILLIAMS 30	L	3	89	M	TRAXINGER	9011850	SD85017	WIND	*86	45	58	2.0	1.0	1	5	A
SD	53B	VIDA WILLIAMS 30	L	3	89	L	VILHAUER	9011850	SD85016	WIND	*86	75	27	2.5	1.5	7	7	A
SD	53B	VIDA WILLIAMS 30	L	4	19	FENTON FARMS		9011850	SD85013	WIND	*86	50	10	2.0	1.5	3	5	A
SD	50A	SAVO	SICL	4	105	K	KVANVIG	9011850	SD85012	WIND	*86	100	78	2.5	1.0	3	3	A
SD																		

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- 517 PURP (Purpose)
- 599 YR RC (Year of record)
- 518 NUM PLTS (Number of plants)
- 532 SUR PCT (Percent survival)
- 552 FOL HT (Height at end of season)
- 553 FOL WID (Crown width at end of season)
- 525 WDC (Weed competition)
- 627 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

A SUMMARY OF 10-11-1977-1980 AMJR HOVELY JOCKLE FIELD PLANTINGS IN SOUTH DAKOTA
11/16/1987

504	505	507	509	711	505	503	001	502	517	699	518	532	552	525	527	713
MLRA SOIL SERIES			SOIL-ADM	SVI	TEXT AREA	NUM COOPERATOR	ACCN	FIELD	YR	YR	NUM	SUR	FOL	FOL		
							NUMBER	PLNT	VO	PURP	RC	PLTS	PCT	HT	WDC	ADPT
50	564	ANSELMO	FSL	3	121-C	ANDERSON	477338	S068031		483	14	39	.5	.3	9	1

RATING: SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP (Purpose)
- 599 YR RC (Year of record)
- 518 NUM PLTS (Number of plants)
- 532 SUR PCT (Percent survival)
- 552 FOL HT (Height at end of season)
- 553 FOL WID (Crown width at end of season)
- 525 WDC (Weed competition)
- 627 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

A SUMMARY OF NO-34 (3005228) LATE LILAC FIELD PLANTINGS IN SOUTH DAKOTA
11/12/1987

504	506	507	509	711	505	503	001	502	517	699	518	532	552	553	525	527	713
ST	MLRA	SOIL SERIES	SOIL-ADM	TEXT AREA	ADM	CVT	ACCN	FIELD	PURP	YR	NUM	SUR	FOL	FOL	WDC	ADPT	STAT
							NJMBER	PLNT NO		RC	PLTS	PCT	HT	WID			
*	SD	0553	GREAT BEND	SI	1	13	M OLSON	SD67001	WIND	*84	376	30	.3	.3	9	3	I
*	SD	102	KRANZBURG	SICL	1	29	E LARSON	SD68027	WIND	*84	100	99	1.0	1.0	3	3	I
*	SD	102A	POINSETT-WAUBAY	SICL	1	29	R DEBERG	SD67009	WIND	*84	70	84	1.1	.8	3	3	I
*	SD	102	FORMAN	L	1	51	A OLSON	SD68012		*84	150	95	1.5	1.2	1	1	I
*	SD	102	KRANZBURG	SIL	1	57	V OLSON	SD66001	WIND	*84	230	90	1.0	.8	1	3	I
*	SD	102A	ECKMAN	SIL	1	109	S PIRMANITGEN	SD65005	WIND	*84	78	99	.9	.8	3	1	I
*	SD	102A	HEIMDAL	L	1	103	R BOHN	SD65010	WIND	*84	57	20	.5	.4	9	7	I
*	SD	055C	EAKIN-EIHAN COMP	SIL	2	23	S CAHOY	SD67018	WIND	*84		95	1.0	.8	9	1	I
*	SD		TRENT-MOODY	SIL	2	27	R HUSBY	SD65016									
*	SD	053B	WILLIAMS	SIL	3	45	M KUKRALL	SD66005	WIND	*84	137	64	.6	.4	3	3	I

RATING SYSTEM 1=EXCELLENT 5=GOOD 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP (Purpose)
- 599 YR RC (Year of record)
- 518 NUM PLTS (Number of plants)
- 532 SUR PCT (Percent survival)
- 552 FOL HT (Height at end of season)
- 553 FOL WID (Crown width at end of season)
- 525 WDC (Weed competition)
- 627 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

A SUMMARY OF 10-521 (477992) 49R APPLE FIELD PLANTINGS IN SOUTH DAKOTA
11/20/1987

ST	MLRA	SOIL SERIES	509	711	505	503	001	502	517	699	518	532	552	553	525	527	713
			SOIL ADM	CNT			ACCN	FIELD		YR	NUM	SUR	FOL	FOL	WDC	ADPT	STAT
			TEXT AREA	NUM	COOPERATOR		NUMBER	PLNT NO	PURP	RC	PLTS	PCT	HT	WID			
SD	102A	POINSETT	SIL	1	11 A OLSON		477992	SD85009	SDIN	*85	89	90			3		A
SD	102A	POINSETT	SIL	1	11 A OLSON		477992	SD85009	SDIN	*85	89	84	1.8	.9	5	3	A
SD	102	ESTELLIVE	SIL	1	11 V HILL		477992	SD76003	WIND	*82	25	90	.7	.6	1	3	I
SD				2	59 SDSJ (DRY SITE)		477992	SD85003	IRRG	*85	10	100					A
SD				2	59 SDSJ (IRRG SITE)		477992	SD85028	IRRG	*85	10	100					A
SD	053C	GLENHAM	L	2	59 T SPILDE		477992	SD85004	WIND	*85	50	88	1.3	.8	1	5	A
SD	053C	GLENHAM	L	2	59 T SPILDE		477992	SD85004	WIND	*86	50	82	2.3	2.2	3	3	A
SD	054	TREMABLES	FSL	3	31 J KERSTEIN		477992	SD85019	WIND	*85	10	0			5		A
SD	054	SHAMBO	L	3	31 J PETIK		477992	SD85020	WIND	*85	10	40			9		A
SD	054	REEDER	L	3	31 S JACOBS		477992	SD85018	WIND	*85	10	80			7		A
SD	054	TUTHILL	FSL	4	7 P FANNING		477992	SD85014	JIND								A
SD	064	TUTHILL	FSL	4	7 P FANNING		477992	SD85014	WIND	*85	8	8	1.5	.5	7	7	A
SD				4	105 K KVANVIG		477992	SD85012	WIND	*85	50	68	2.0	2.0	3	3	A

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP (Purpose)
- 599 YR RC (Year of record)
- 518 NUM PLTS (Number of plants)
- 532 SUR PCT (Percent survival)
- 552 FOL HT (Height at end of season)
- 553 FOL WID (Crown width at end of season)
- 525 WDC (Weed competition)
- 627 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

A SUMMARY OF ND-14 HARBIN PEAR (PYRUS JESSURIENSIS) FIELD PLANTINGS IN SOUTH DAKOTA
11/09/1987

504	506	507	509	711	505	503	001	502	517	699	518	532	552	553	525	527	713
ST	MLRA	SOIL SERIES	SOIL	ADM	CNT		ACCN	FIELD		YR	NUM	SUR	FOL	FOL	WDC	ADPT	STAT
			TEXT	AREA	NUM	COOPERATOR	NUMBER	PLNT	NO	PURP	RC	PLTS	PCT	HT			
***	SD	053A	OPAL	C	3	75 L	ROGHAIR	478904	SD82007	WIND	*85	90	.3	.2	3	3	A

RATING SYSTEM 1=EXCELLENT 3=GOOD 5=FAIR 7=POOR 9=VERY POOR

Legend:

- 505 CNT NUM (FIPS County Code)
- 502 FIELD PLNT NO (Field planting number: state, year planted, sequence)
- 517 PURP (Purpose)
- 599 YR RC (Year of record)
- 518 NUM PLTS (Number of plants)
- 532 SUR PCT (Percent survival)
- 552 FOL HT (Height at end of season)
- 553 FOL WID (Crown width at end of season)
- 525 WDC (Weed competition)
- 627 ADPT (Adaptation to site)
- 713 STAT (Status: active, inactive, terminated)

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Long Range Plan for Field Plantings

Species: Prunus padus var. commutata Dipp.

Common name: European birdcherry, mayday.

Accession number: SD-131, 6073T.

Purpose of field plantings: Evaluated this for use as a medium tree component of multiple row field and farmstead shelterbelts, single row field windbreaks, wildlife plantings and recreational area developments. Provides food and nesting sites for song birds and other wildlife. Non-suckering habit should be advantageous as a substitute for chokecherry.

Literature review and background information: Mayday is native to Europe and Asia. This shrubby, rounded tree may reach a height of 30 feet. Nonpersistent fruit is small, black, about 1/4 inch across, ripening in July. Branches are low and ascending. One of the first trees to leaf out in the spring. Black knot disease is considered a limiting factor for the species, especially in Minnesota. Root stocks are compatible with chokecherry scion wood. It is hardy in the Dakotas and is non-suckering.

Seed of SD-131 was collected in 1964 from one or more trees on the Oscar Hobbie farm three miles south of the Brookings County line in Moody County near Flandreau, South Dakota. This 1952 planting was established with stock from the Gurney Nursery, Yankton, South Dakota. This and other similar plantings in South Dakota were thought to trace to early introductions by J. L. Budd, Iowa State College, from eastern Siberia via the Imperial Botanical Gardens of Russia. It has performed well in Field Evaluation Plantings in North Dakota, South Dakota and Minnesota.

Duration of field plantings: 10 years.

Standard of comparison: common chokecherry.

Approximate size of field plantings: Minimum of 25 trees per entry.

Location of field plantings: All MLRAS in North Dakota, South Dakota and Minnesota. Selected sites in Iowa, Wisconsin, Nebraska, Montana, Kansas and Wyoming.

Site selection: Recommended for planting on the soils in windbreak suitability groups 1-6. Performs best on moist, moderately well drained to well drained clay loams or sandy soils.

Evaluations: Complete evaluations as required by PMS on Form SCS-ECS-10, Evaluation of Woody Field Plantings.

Summary results: Results will be summarized when trials are complete.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Long Range Plan for Field Plantings

Species: Helianthus maximiliani Shrad.

Common name: maximilian sunflower.

Accession number: ND-3959, 35964T.

Purpose of field plantings: Evaluate this selection for use in wildlife habitat plantings, range seedings, surface mine reclamation or beautification of transportation corridors and recreational area developments. Stiff upright stems may have potential as vegetative wind barriers. A highly palatable and nutritious livestock forage. Seeds are heavily utilized by birds and other wildlife.

Literature review and background information: Maximilian sunflower is a native, perennial, warm season forb. It grows upright singly or in tight colonies, spreading by seed and heavy rootstalks. Stem heights reach 3-6 feet with conspicuous yellow flower clusters arising on short flower stalks from the leaf axils. Flowers may be present from July through September. It is found in the plains from Saskatchewan and Manitoba south to Missouri and Texas and in some eastern states. Although more abundant in eastern Dakotas than western, it is found along streams, near springs and wet areas in the west. There are approximately 225,000 seeds/pound.

The origin of this accession is from native sites in Grant, LaMoure and Cavalier Counties, North Dakota; Marshall County, South Dakota and Big Stone County, Minnesota. ND-3959 is a composite of five accessions selected on the basis of four years favorable performance in comparison to 52 other accessions from the Dakotas and Minnesota. Criteria for selections included maturity, plant size, vigor, leafiness, number of stems and susceptibility to sunflower rust. Flowering and maturity averages 2 weeks earlier than selections from southern and central South Dakota. Height is variable but may exceed 4.5 feet under optimum conditions or cultivations.

Duration of field plantings: 4 to 5 years.

Standard of comparison: 'Prairie Gold' maximilian sunflower.

Approximate size of field plantings: Minimum size for range and pasture plantings is five acres and one-half acre for critical area, wildlife, roadside and similar plantings.

Location of field plantings: All MLRAS in North Dakota, MLRAS 58D, 63A (northern half) in South Dakota, MLRAS 56, 57, 88, 90, 91, 92, 93, 94A, and 94B in Minnesota.

Site selection: Maximilian sunflowers prefer moist sites and heavier soils, particularly overflow areas, swales, streambanks, ravines and roadside ditches. Commonly associated with big bluestem communities.

Evaluations: Complete evaluations as required by PMS on Form SCS-ECS-11, Evaluation of Herbaceous Field Plantings.

Summary results: Results will be summarized when trials are complete.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Long Range Plan for Field Plantings

Species: Helianthus maximiliani Shrad.

Common name: maximilian sunflower.

Accession number: ND-3651, 8065T.

Purpose of field plantings: Evaluate this selection for use in wildlife habitat plantings, range seedings, surface mine reclamation or beautification of transportation corridors and recreational area developments. Stiff upright stems may have potential as vegetative wind barriers. A highly palatable and nutritious livestock forage. Seeds are heavily utilized by birds and other wildlife.

Literature review and background information: Maximilian sunflower is a native, perennial, warm season forb. It grows upright singly or in tight colonies, spreading by seed and heavy rootstalks. Stem heights reach 3-6 feet with conspicuous yellow flower clusters arising on short flower stalks from the leaf axils. Flowers may be present from July through September. It is found on the plains from Saskatchewan and Manitoba south to Missouri and Texas and in some eastern states. Although more abundant in Minnesota and the eastern Dakotas, it is found along streams, near springs and wet areas in the western Dakotas. There are approximately 225,000 seeds/pound.

The origin of this accession is from a silty overflow site in Hughes County, South Dakota. Selected on favorable performance in comparison to 52 other accessions collected in the Dakotas and Minnesota. Criteria for selection included maturity, plant size, vigor, leafiness, number of stems and susceptibility to sunflower rust. Flowering and maturity averages 2 weeks later than selections from North Dakota. Height exceeded 6 feet under cultivation.

Duration of field plantings: 4 to 5 years.

Standard of comparison: 'Prairie Gold' maximilian sunflower.

Approximate size of field plantings: Minimum size for range and pasture plantings is five acres and one-half acre for critical area, wildlife, roadside and similar plantings.

Location of field plantings: All MLRAS in South Dakota; MLRAS 90, 91, 94, 102A, 102B, 103, 104, and 105 in Minnesota; MLRAS 54,

53B (southern half), 55B (southern half), and 56 (southern half) in North Dakota.

Site selection: Prefers deep, fertile lowland, moist sites. Particularly overflow areas, swales, streambanks, ravines and roadside ditches. Commonly associated with big bluestem communities.

Evaluations: Complete evaluations as required by PMS on Form SCS-ECS-11, Evaluation of Herbaceous Field Plantings.

Summary results: Results will be summarized when trials are complete.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Long Range Plan for Field Plantings

Species: Elymus giganteus Vahl.

Common Name: mammoth wildrye

Accession Number: ND-691, PI-313965

Purpose of Field Plantings: This selection will be evaluated for use as vegetative barriers or windbreaks. Course stem and foliage remain upright in winter and may also prove useful for wildlife food and cover. Its stout creeping habit has potential for stabilizing sand or critical areas.

Literature Review and Background Information: Mammoth wildrye is a tall course, introduced perennial grass, spreading from stout, vigorous rhizomes. Sessile spikelets make up a long dense spike supported by a thick, stiff culm. It is considered moderately palatable to grazing animals. This species can vary in growth from short, slender stemmed plants to thick robust plants up to 6 feet tall depending on moisture. Occasionally, it is grown as an ornamental. It is native to Siberia.

Increase of ND-691 was initiated from vegetative plugs planted in the spring of 1981 after 3 years of initial evaluation. This selection was first received in 1971 from Plant Introduction Station 59, Pullman, Washington which obtained the seed from Russia. This species appears adapted to the cold and droughty conditions of North Dakota. Insect and disease problems appear slight.

Duration of Field Plantings: 4 to 5 years.

Standard of Comparison: Volga mammoth wildrye, and T-16187 mammoth wildrye.

Approximate Size of Field Plantings: Minimum size for pasture is five acres and one half acre for critical area, wildlife, roadside and similar plantings.

Location of Field Plantings: all MLRAS in North Dakota, South Dakota, and Minnesota. Selected sites in Montana, Wyoming, Nebraska, and Kansas.

Site Selection: Adapted to deep sands, sandy loam, droughty porous soil (not especially adapted to gravels). Has exhibited moderate salt tolerance in some clayey saline soils.

Evaluation: Complete evaluations as required by PMS on SCS-ECS-11, Evaluation of Herbaceous Field Plantings.

Summary of Results: Results will be summarized when trials are complete.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Long Range Plan for Field Plantings

Species: Gleditsia triacanthos L.

Common name: Honeylocust.

Accession number: ND-1879, MDN-10435, 11850T.

Purpose of field plantings: Evaluate this selection for use as a tall or medium tree component of multiple row field and farmstead windbreaks and recreational area developments. It also has potential for wildlife habitat and natural area plantings.

Literature review and background information: Honeylocust is a medium to tall, fast growing, drought resistant tree (18-50 feet). It is adapted to a wide range of soils and can withstand alkaline soils. This species is noted for its zigzag twigs, large 2 to 4 inch thorns and fine textured compound leaves. Its fruit is a large bean shaped pod. Selections can be obtained which are thornless. Winter injury is common in the central and northern areas of South Dakota and all of North Dakota on seedlings grown from poorly adapted seed sources.

ND-1879 is a source selection based on 45 years of performance at the USDA, ARS Station, Mandan, North Dakota and comparison with other locally tested accessions, this accession differs morphologically from common honeylocust. Branches of the parent trees are nearly thornless. The leaflets are slightly smaller, less ellipic and rounded. It appears more winter hardy in North Dakota and South Dakota than seed sources originating from the nearest native sites in northeastern South Dakota and northern Minnesota. Has performed well in most Field Evaluation Plantings in North Dakota, South Dakota and Minnesota.

Duration of field plantings: 10 years.

Standard of comparison: common honeylocust, green ash, manchurian crabapple, Russian olive.

Approximate size of field plantings: Minimum of 25 trees per entry.

Location of field plantings: All MLRAS in South Dakota; MLRAS 53B, 54, 55B, 56 (southern half), 58C; in North Dakota; MLRAS 56 (southern half), 57, 88, 90, 91, 94, 102A, 102B, 103, 104, and 105 in Minnesota. Selected sites in Nebraska, Kansas, Wyoming and Montana.

Site selection: Adapted to moist, well drained bottomlands and limestone soils. Tolerates drought, high PH and salt.

Evaluations: Complete evaluations as required by PMS on Form SCS-ECS-10, Evaluation of Woody Field Plantings.

Summary results: Results will be summarized when trials are complete.

SOUTH DAKOTA SEED INCREASE AND PRODUCTION - 1986

Area	Field Office	Cooperator, Address	Species	Acres & Yr. Pltd.	Quantity	Estimated \$ Value
01	Brookings	Mason Wheeler Aurora, SD 57002 (605-693-4239)	'Garrison' creeping foxtail	10	0	
			'Neb-28' switchgrass	7 (1973)	0	
			SD-149 switchgrass	7 (1973)	1306	13,060
			'Summer' switchgrass	6 (1973)	0	
			'Pathfinder' switchgrass	6 (1973)	0	
		Allen Watt (605-692-7471) 2024 Olwien St. Brookings, SD 57066 Gregory Watt (629-6081) White, SD 57276	'Garrison' creeping foxtail (Cert.)	9 (1961)	0	
			'Garrison' creeping foxtail (1977) 'Forestburg' switchgrass 46.5 (1983)	0		
DeSmet		Glen Davis R. Easland	'Forestburg' switchgrass	29 (1984)	0	
Madison		D. Storer	'Forestburg' switchgrass	30 (1985)	1000	10,000
		V. Meyer	'Pierre' sideoats grama	(1986)	0	
		T. Rethke	MDN-259 pubescent wheatgrass	(1986)	0	
Parker		Terry Flyger	'Garrison' creeping foxtail	4 (1967)	0	
Redfield		D. Jessen	NDG-4 big bluestem	8 (1970)	0	
		L. Roberts	'Garrison' creeping foxtail	30 (1969)	0	
		W. Muellenberg	'Garrison' creeping foxtail	10 (1969)	0	
Watertown		South Dakota Game Fish & Parks Big Sioux Nursery Watertown, SD 57201 (605-886-6806)	'Midwest' manchurian crabapple		14,900	3,278
			'Cardan' green ash		0	
			'Oahe' hackberry	(1985)	0	
			'Sakakawea' silver buffaloberry		14,800	3,404
			'Scarlet' Mongolian cherry	25 plts (1985)		

SOUTH DAKOTA SEED INCREASE AND PRODUCTION - 1986

Area	Field Office	Cooperator, Address	Species	Acres & Yr. Pltd.	Quantity	Estimated \$ Value
02	Chamberlain	R. Krog D. Lake	'Forestburg' switchgrass 'Forestburg' switchgrass	18 (1984) 16.5 (1985)	0 0	
	Wessington Springs	Lee Buffington (605-374-3831)	'Forestburg' switchgrass	20 (1983)	1800	18,000
03	Ipswich	Walter Kalt (605-225-2797) Route 2, Box 29 Mina, SD 57462	'Garrison' creeping foxtail	21.6 (1971)	0	
		Atlas Wendt Mina, SD	'Garrison' creeping foxtail	4	0	
		Dwayne Blomster Wetonka, SD	'Garrison' creeping foxtail	10	0	
	Leola	Ron Bieber Leola, SD (605-439-3628)	'Garrison' creeping foxtail	4 (1963)	0	
	McIntosh	H. Baumberger	'Pierre' sideoats grama	10 (1984)	0	
	Selby	M. Stiegelmeier (605-649-7030)	'Forestburg' switchgrass	30 (1980)	0	
	White River	L-7 Ranch Mission, SD (605-856-4621)	SD-27 big bluestem 'Forestburg' switchgrass 'Forestburg' switchgrass	9 (1984) 10 (1986) 20 (1986)	100 0 0	1,200
		Hurst, P.	'Pierre' sideoats grama	17 (1983)	0	
	Winner	Ferguson, W	MDN-759 pubescent wheatgrass	20 (1982)	0	

SOUTH DAKOTA SEED INCREASE AND PRODUCTION - 1986

Area	Field Office	Cooperator, Address	Species	Acres & Yr. Pltd.	Quantity	Estimated \$ Value
03	Belle Fourche	Farmers Feed & Seed Belle Fourche, SD (605-347-3613)	MDN-759 Pubescent wheatgrass	14 (1982) (1985)	0	
			'Rodan' western wheatgrass	8 (1983)	0	
			'Rosana' western wheatgrass		0	
Martin		USDI-FWS LaCreek NWR (605-685-6508)	'Tomahawk' indiangrass	14 (1986)	0	
			'Forestburg' switchgrass	26 (1985)	0	
Philip		D. Oldenburg	'Pierre' sideoats grama	15 (1982) 4 (1983)	60 50	720 600
			'Rodan western wheatgrass	15 (1982)	0	
Sturgis		K. McNenny (605-347-2157)	'Rosana' western wheatgrass	20 (1983)	1725	12,937
Wall		LaVon Shearer (605-279-2198)	'Garrison' creeping foxtail	10 (1979)	0	
TOTAL:				538 Acres	51,850 Seedlings	12,736
					6,041 Pounds	69,401
						82,137

